



SERD EVALUATOR'S BASIC CONCEPTS & PROCESSES

PRESENTED BY:

**NAWCADLKE 3.6 Logistics Information
Systems Maintenance & Operations and
Data Analysis**

Last Update July
2004

Class Logistics and Ground Rules

- **Administrative**
 - **Attendance Sheets (Please sign-in each morning)**
 - **Class Evaluations (please provide constructive feedback)**
 - **Clean up rooms and break areas at the end of the day**
 - **Facilities: Restrooms, Smoke Areas and Phones**
- **Schedule and Timing**
 - **Morning sessions begin at 8:00 until 11:30**
 - **Afternoon sessions begin at 12:30 until 4:00**
 - **Breaks: 10 minutes per 50 minutes of instruction**
 - **Be on time in the morning and after breaks**
- **Distractions:**
 - **Silence Cell Phones and Pagers; Limit Email to Breaks**
 - **Be considerate of others in class**

Attendance and Test requirements

- **You must be present at all sessions**
- **Students may miss no more than one hour--with instructor's prior approval--and may be asked to repeat the course**
- **You must complete this training in order to receive SERD Update authority associated with your role covered by this course**
- **You must also pass the closed book SEMS / SERD proficiency test to obtain / retain Update and approval authority**

Student Materials

- Web Download

To access go to <https://138.60.67.250/acq/>

- Make Notes on Your Printouts vs Notepads or Classroom Exercise Handouts.

- Student Materials Content

- Slides are meant to be used as a reference source after the class is completed

- Slides have more verbiage than a normal presentation format

THE PURPOSE OF THE SERD TRAINING COURSE **IS:**



To Acquaint SERD Evaluators (Engineers, Technicians and Logisticians) with the AMMRL Program (the overarching SE management program), the Support Equipment Recommendation Data (SERD), the related SE Management Information Systems, and the Joint Services SERD Handbook for the AR21/LSA070 SERDS.

To train SERD Evaluators (Engineers, Technicians and Logisticians) to effectively evaluate Contractor-Submitted SERDS and or to generate Government prepared SERDs and to properly prepare and process SERDS for which they have been assigned Technical or Logistics Cognizance.

NOTE: Upon Completion of This Course, You Will Have Learned the Basic Concepts and Processes to review and evaluate SERDs. However You Will Only Become Proficient on SERD processing after processing a quantity of SERDs (Experience) in a timely manner (As in any training the

Our goals are

- Exposing you to the SERD, the associated SE MIS's and to the SE Management practices as it applies to your specific role
- Point you to the appropriate resource to continue your learning
- To shorten your learning curve based upon completion of this training
- We ask you to be patient, flexible and ask questions ... be active in your SE career success!

DAY 1 AGENDA*

SERD OVERVIEW & Acquisition Screens (1 of 3)

<u>Time</u>	<u>Transaction</u>
0800	Introduction
0900	01_SERD_Overview
1000	02_Acquisition_Screens
1130	Lunch
1230 Cont'd	02_Acquisition_Screens
1600	End of Day 1

* This is an estimated agenda for the day. All classes run differently, therefore, understand that it is not a life or death situation if you are ahead or behind. This slide is meant to give you a barometer as to where you should be if all is going well.

DAY 2 AGENDA

Acquisition Screens, System List Model, and SERMIS Algorithms

(2 of 3)

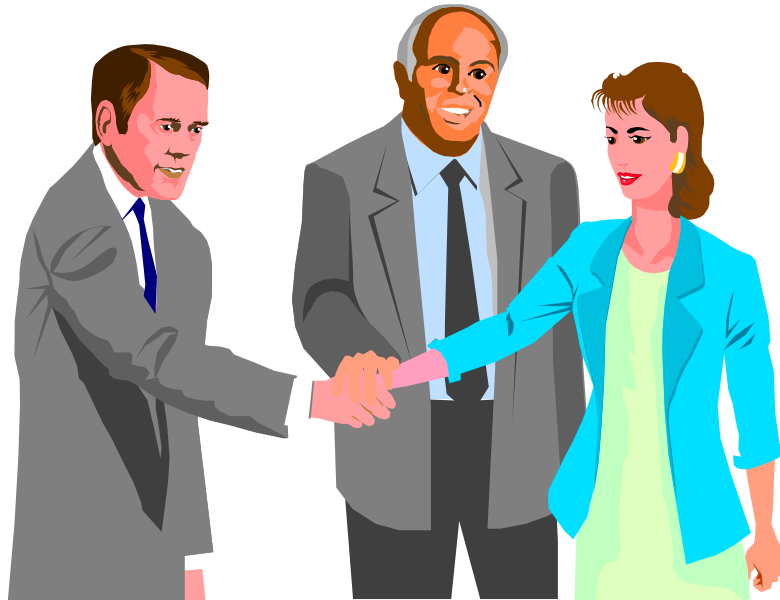
<u>Time</u>	<u>Transaction</u>
0800	Day 1 Refresher/Exercise
0900 Cont'd	02_Acquisition_Screens
1130	Lunch
1230	03_System_List_Model
1430	04_SERMIS_Algorithms
1600	End of Day 2

DAY 3 AGENDA
SEMS SERMIS screens
(3 of 3)

<u>Time</u>	<u>Transaction</u>
0800	Day 2 Refresher / Exercises
0830	05_SERMIS_SEARR_SODARR &
	06_SERMIS_SOURCE_TECH &
	07_SERMIS_Allowance_Batch_Inventory
1130	Lunch
1230	Review / Lessons Learned
1300	Test
1600	Course Complete

Introductions

- **Name**
- **Current Job at NAVAIR**
- **Prior SERD Experience (ARO, TRO, LRO, PM, etc.)**
- **What are your expectations of this class?**



Key Learning Objectives

- Upon completion of this course, you will be able to:
 - Query SE data by SERD, NIIN or Part Number in AUTOSERD
 - Query SE data by NIIN or Part Number in SERMIS
 - Create pending Original or revision SERDs
 - Evaluate SERDs submitted to you for evaluation
 - Assign Models to list codes in SLM
 - Display Documentation
 - Review Source Data and make corrections / modifications as required

FOOD FOR
THOUGHT:

**“To do a job RIGHT, You
need the
RULES, TOOLS &
PEOPLE”**

**We are here to assist YOU in
learning the rules, showing you what
and where the TOOLS are.**

Definitions

???

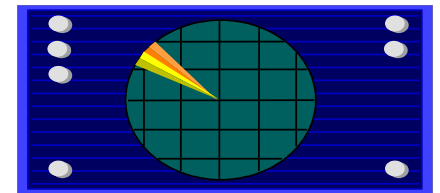
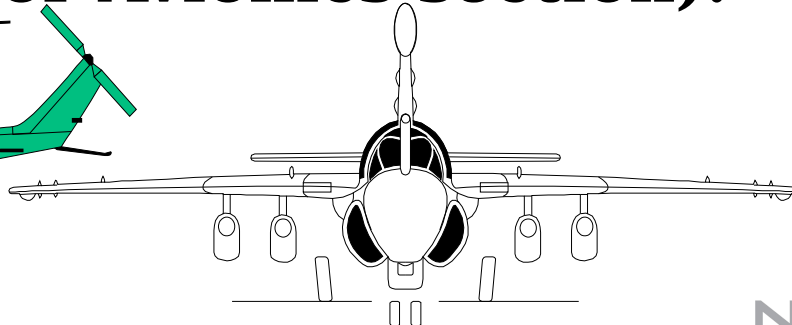
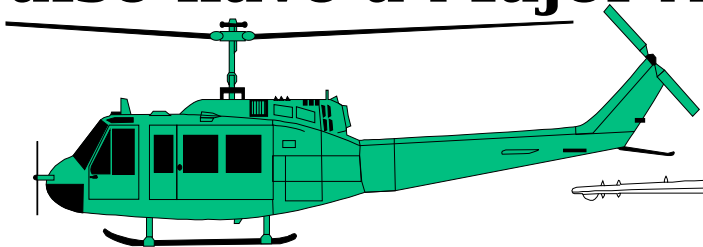
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End Article Definition

End Article:

**The top level End Weapon System or other Equipment being procured on a Contract.
IE: Aircraft (F/A-18), Weapon (AIM7), Engine (F404), etc or an Government Furnished Aircraft System (AN/ARC210 Radio), or a Major SE End Item (CASS = ANUSM636)**

The contract provides the specification for the End Article (Aircraft contracts have a detail contract specification listing all systems included with the quantities of systems installed, most also have a Major Avionics section).





NACES Field O/I Level Test Set

SE End Item Definition

Support Equipment (SE) (formerly referred to as Support and Test Equipment (S&TE)) is the equipment required to maintain an End Article, system or facility operational in its intended environment; and includes the necessary equipment to test, measure, diagnose, calibrate, handle, secure, and repair systems, sub-systems, components, and equipment. SE includes, but is not limited to: Special Purpose Test Equipment (SPTE), Calibration Equipment, General Purpose Electronic Test Equipment (GPETE), and Automatic Test Equipment (ATE). SE is a part of the mandatory Integrated Logistics Assessment program required by

Types of SE End Items

Airframes

- Aircraft Handling Vehicles
- Aircraft Crash Salvage
- Electrical Servicing
- Hydraulic Servicing
- Hydraulic Maintenance
- Aircraft Maintenance
- Platforms
- Life Support/Cryogenics
- Non-Destructive Inspection
- Corrosion Control

Armament

- Armament Loading
- Armament Transport

Propulsion

- Engine Test Systems
- Engine Maintenance

Pollution Prevention

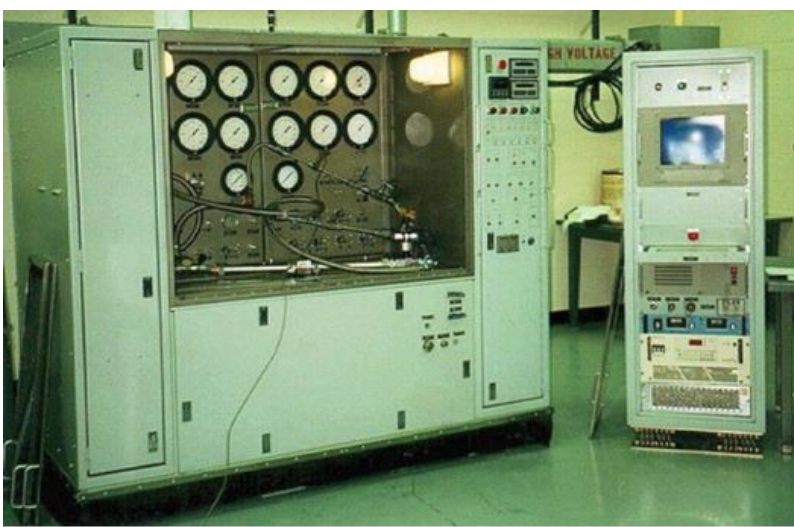
- Painting/Surface Preparation
- Washing Operations
- Aircraft Maintenance
- Facility Recycling

Avionics

- Electronic Warfare
- Weapons Control
- Communications
- Electro-Optics
- Software Loading
- Navigation
- Maintenance Data Processing
- Instrumentation
- Radar
- Aircraft Wiring

ATE

- Avionic Test Set (ATE)
- Hybrid Test System (HTS)
- Intermediate Avionics Test Set (IATS)
- Radar Set Test Station (RSTS)
- Electro-Optic Test Set (EOTS)
- Consolidated Automated Support System (CASS)



CSE End Item Definition

COMMON SUPPORT EQUIPMENT (CSE) - Comprised of only those general purpose items supplying or measuring broad parameters of physical properties that are known to be established in the using service's inventory, for example, ground electrical, pneumatic, and hydraulic power units; towing, hoisting, and fueling devices; signal generation devices; and voltage, amperage, and phase measuring devices. The application of SE items to other end items, systems, or components does not in itself justify or classify the items as CSE. CSE is divided as AVIONICS SE (common and peculiar) and NON AVIONICS SE (common and peculiar).

Flight Deck Equipment -- An Example of CSE

Flight Deck Equipment includes:

- Tow tractors
- Hydraulic power supply
- Electric power plants
- Mobile air conditioners
- Nitrogen servicing cart
- Weapons hoists
- Jet air start units
- Salvage cranes
- Fire trucks





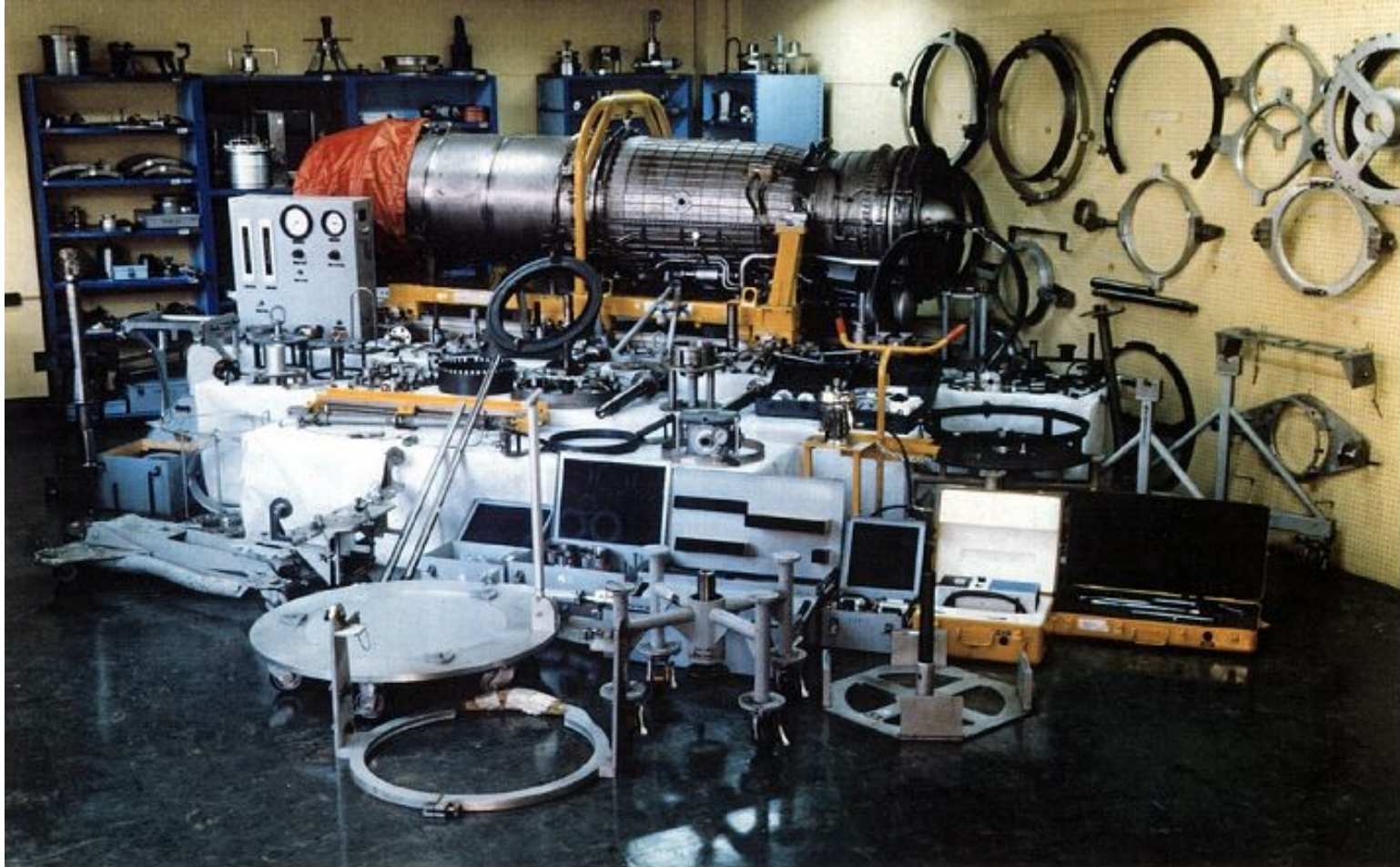
PSE End Item Definition

PECULIAR SUPPORT EQUIPMENT (PSE) - An item of SE that must be designed and developed in conjunction with the development of a specific weapons system and does not meet the criteria of CSE. PSE is divided as Avionics SE (common and peculiar) and Non-Avionics SE (common and peculiar).

F404 Engine Support Equipment --

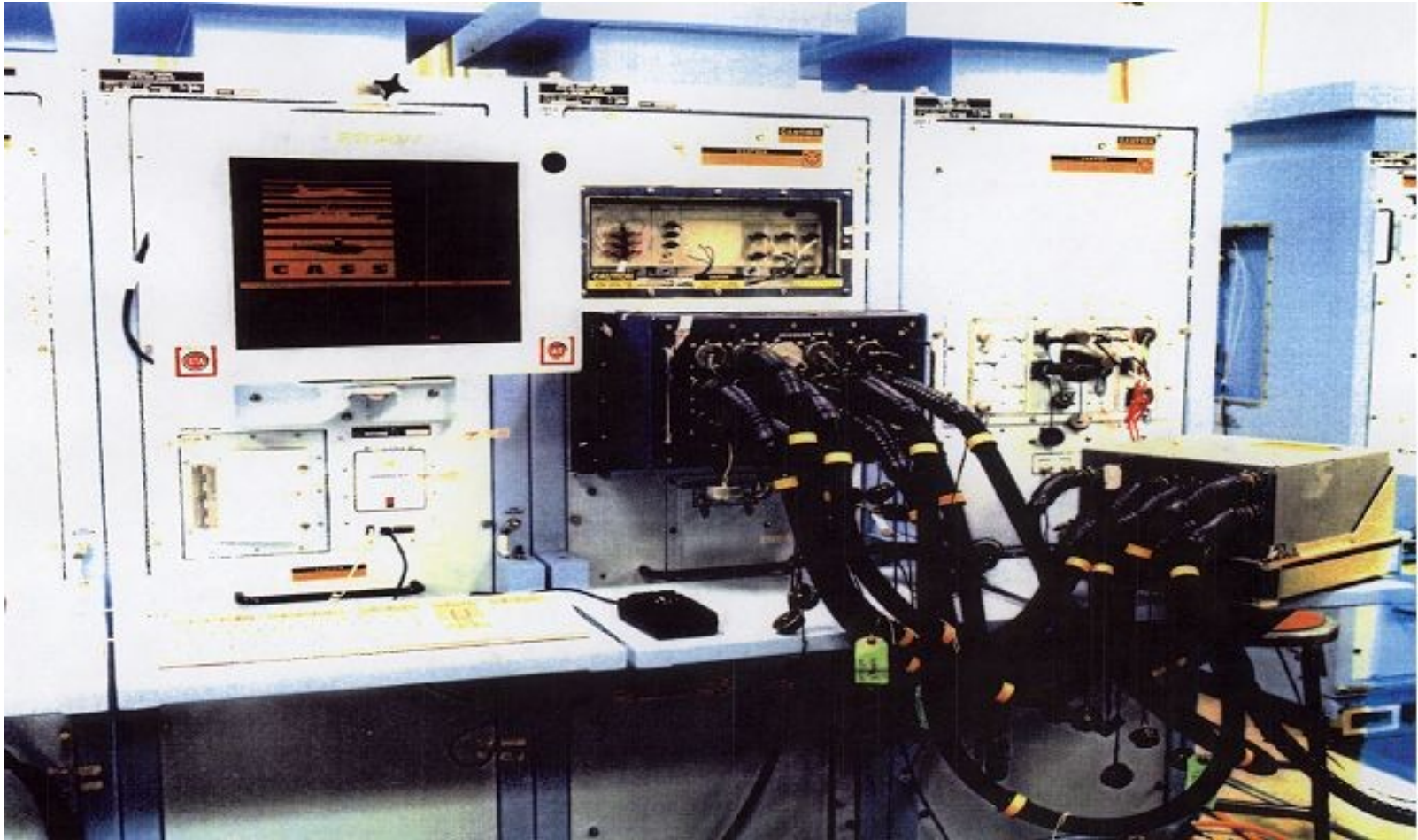
An Example of PSE

Over 1,000 PSE items are required to service and repair the F404 jet engine

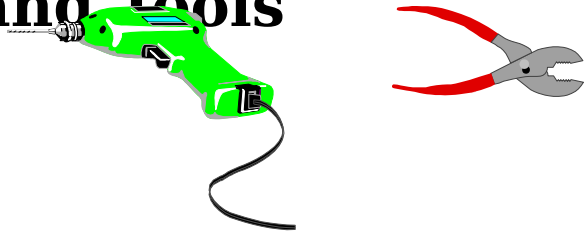
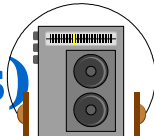
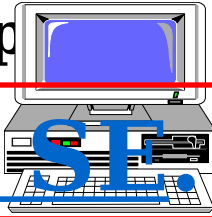


The Consolidated Automated Support System (CASS) and Test Program Sets (TPS) -- An Example of PSE Working with CSE

While CASS is the Navy's primary common avionic test system, each unit under test require its own peculiar TPS



Equipment Excluded From The Definition of SE:

- Common Powered and Nonpowered Hand Tools 
- Housekeeping Items 
- Office Furniture and Equipment and Items Common to A 
- Common Production Tools and Tooling (A.K.A.  ST 
- Items Used Only by the Contractor (Factory Test Equipment)
- Personal Equipment (e.g., Headsets, Microphones) 
- Off-Line Automatic Data Processing (ADP) Equipment 

NOTE: MOD Kits ARE NOT SE.

These equipments are all managed under different allowance lists!

CLARIFICATION of DEPOT SE vs. SPECIAL TEST EQUIPMENT/PRODUCTION TOOLING

(Provided by PMA-260 D. Albrecht)

“Test figures and jigs used to **produce** a weapon system are usually identified as **STE (special test equipment)** or "plant equipment" that is procured as a line item on a weapon system contract that is tracked by the local DCMC as government owned contractor furnished property.

When I worked on the EA-6 program, there was a large volume of this type of gear (STE) that was bought by the prime contractor as part of the nonrecurring cost of the aircraft and was tracked as such under that contract. There was some level of reporting (very minimal) that was tracked by the program's GFE manager at the time and DCMC.

If you have to provide this gear as a required item in order to perform DEPOT MAINTENANCE on a weapon system, then the item should be SERDed as depot SE for the weapon , with its need called out in the depot maintenance pub / rework spec for the weapon. At a minimum - drawings for the depot SE item could also be called out in the depot maintenance pub/rework spec and maintained by the weapon system FST.”

LSA / MP???

The LSA process is tailored in accordance with the maturity of the system/equipment design. The LSA provides a foundation for the Integrated Logistics Support (ILS) program by generating source data and maintenance plans, which will direct other ILS elements such as training, technical publication and provisioning. The source material will be identified during the development of a maintenance philosophy through the implementation of the LSA itself. The maintenance philosophy should adopt and concur with the program maintenance concept and ensure that supportability requirements are considered and incorporated into the design of an equipment/system.

LSA / LSAR / MP???

The LSAR is a Logistics Engineering tool and is populated with various logistical and RAM data. The logistical data will include all of the data associated with both corrective and preventative maintenance tasks. The items required to support each maintenance task will also be identified. This would normally include spare parts, tools and support equipment (standard and special) and personnel.

The results of the LSA tasks will determine whether or not an item is repaired or discarded. This will allow for a Maintenance Task Analysis to be conducted. The LSA results, detailing all the support resources needed to conduct the identified CM/PM tasks, are generally presented

LSA / LSAR / MP???

ILS output reports could be made available from the LSAR database. The following are examples of the LSAR standard reports, which can be furnished using a validated MIL-STD-1388 database:

- **LSA 019 Maintenance Task Analysis Summary**
- **LSA 023 Maintenance Plan Summary**
- **LSA 024 Maintenance Plan**
- **LSA 025 Packaging Requirements Data**
- **LSA 036 Provisioning Requirements**
- **LSA 056 Failure Mode, Effect and Criticality Analysis (FMECA)**
- **LSA 070 Support Equipment Recommendation Data (SERD)**
- **LSA 074 Support Equipment Tool List**

Support Equipment Recommendation Data

NAVAIR defines the responsibility and policy for the selection, design, approval, ordering, delivery, and logistics support of SE.

NAVAIRINST13600.1 - Acquisition of SE

To ensure availability of SE when systems become “operational”, the Navy implemented the “SERD and SERD process”.

SERD is a compilation of data that describes a Support Requirement for a specific item of Aviation Support Equipment.

SERD is the Primary data record of Support Equipment for the:

Design, Development, ILS, Allocation, Supersedure (configuration management)

ACQ_R2000P1: Previewer

File View Help

Run Date: 27-JUN-2001 09:36 Page: 2

Requested by: NERKER

Support Equipment Recommendation Data

End Article	Item Nbr	NIIN	PN	CAGE	Item Name	Apr
F/A-18	3214	013288708	402-SD-001	25965	OSCILLATOR, PLUG-IN	

Contractor Nbr: N0001983C0272 Contractor Name: MCDONNELL AIRCRAFT CO ARO Name: NAEC ARO Code: 4851 Maint Code: DD

Designator Name: ACFT, STK-FTR Full Item Name: OSCILLATOR, PLUG-IN

SMR: PFD DD 0000 LSA Code: NO Cal. Ind. Rev. Code: A CSE: PSE Using Service: CFE: GFE Illus. Code: I/S

Maint Req.: N Type Equip Code: SUAA

Del or Sup Code/Reason: N/A

Equipment Value: \$1339

Production Lead Time: 06

Net Height: 6

Net Width: 6

Net Length: 12

Cubic Feet: 25

Net Weight: 6

Material Desc: STEEL/ELECTRONICS

Finished Desc: PAINT

Tech Manual Code: 20

Serd Remarks

ASO AREA FOR NOTES/COMMENTS:

1. MCAIR CSE SYSTEM: 57, 56B.
2. MACCN: 50A0E0A00, 50A0E0D00, 50A0E0E00, 50A0E0F00, 50A030G00, 50A0E0H00, 49A0H0000.
3. NEED DATE FOR FLEET USE: DECEMBER 1966.
4. THIS OSCILLATOR, PLUG-IN IS USED IN CONJUNCTION WITH: A.C. POWER SUPPLY 500-2 (ITEM 3215).
5. DELETED.
6. USABLE ON CODE ABS1 IS: F/A-18A AIRCRAFT 17-UP (161353-UP) TF/A-18A AIRCRAFT 5-UP (161354-UP).
7. NO NSM CURRENTLY ASSIGNED.
8. APPROVED FOR RECORD PURPOSES ONLY.
9. MANUFACTURER OF ITEM IS ELGAR CORP. 8825 MERCURY CT, SAN DIEGO, CA 92111-3679.
10. NAFW WILL IDENTIFY AND REQUEST ILS REQUIREMENTS BY SEPARATE CORRESPONDENCE.

BLOCK # 17 - UOC UPDATED FROM ABS1 TO ALL PER END/ART

CONS 01/24/91

REV A: CREATED TO CORRECT BLKS 7, 27, 45 LISTCODE

TA884 WAS REMOVED AND CORRECT R5661 WAS ADDED. SERD QA TEAM 93'

12 APR 1999 FILLED IN MISSING NIIN

DATA AUTOSERD UPDATE TEAM

REV	ROLE	Revision	Remarks	Approved	Pending	Disagree
—	WSM		ESTABLISH ITEM	06/16/86	06/09/86	
A	WSM		TO CORRECT BLKS 7, 27, 45 PER BLK 31	07/09/93	07/09/93	

Supersedure Data

NIIN	Item Name	End Article	Item #
013288708	OSCILLATOR, CRYSTAL	F/A-18	3214

PRIME

System	Maint Level	LV Code	3-d Code	Custody Code	Specific Qty	Specific Desig. Type	Specific
1-4	5-8	9-12	13-16	17-24	25-32	33-64	65-125 126-250 251-450
R5661	D	L		N	001	FLAT	

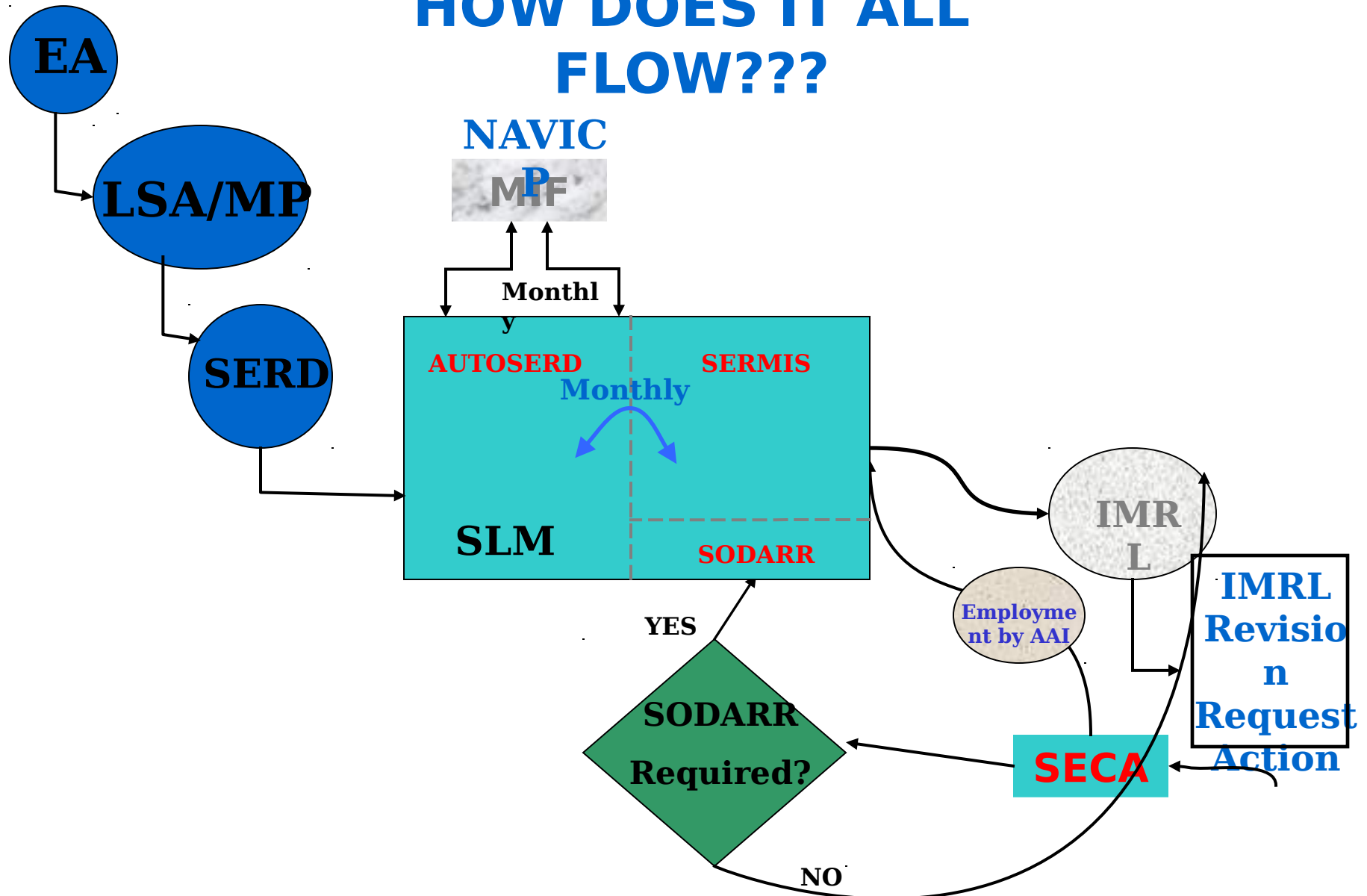
ARS

WUC	MLMC	CAGE	PN	Nomenclature	GFAR/ARS Code
57D	D	76301	4032517-908	DT604/A MAG AZ DETEC	ARS
57D9510	D	76301	153C6880G5	RATE GYRO	ARS

IMRL Remarks

Page 2

SOURCE Data HOW DOES IT ALL FLOW???



IMRL Tailoring Action

SOURCE DATA HOW DOES IT ALL FLOW???

Starting out with an **End Article** – say an F/A-18.

MCAIR (Now BOEING) performs an **LSA / Maintenance Plan** on the End Article which generates maintenance tasks to be performed. These tasks need SE End Items enable maintainers to perform the tasking.

SERD is the document defining the End Item of SE, its ILS, allocation, etc.

AUTOSERD is the computer system that initiates SE requirements for **NAVICP's** MIF and the **SERMIS** system.

SECAs add employment data to SERMIS. **Employment data** consists of the unique site identifier (aka AMMRL Activity Indicator or AAI), The types and quantities of aircraft at the site, the maintenance levels being supported at that site and any systems that won't be supported their (aka Exceptions).

IMRL is the resultant output of all the SE required at a site to perform the specified maintenance based on that employment data and the Source Data from AUTOSERD for every SE NIIN.

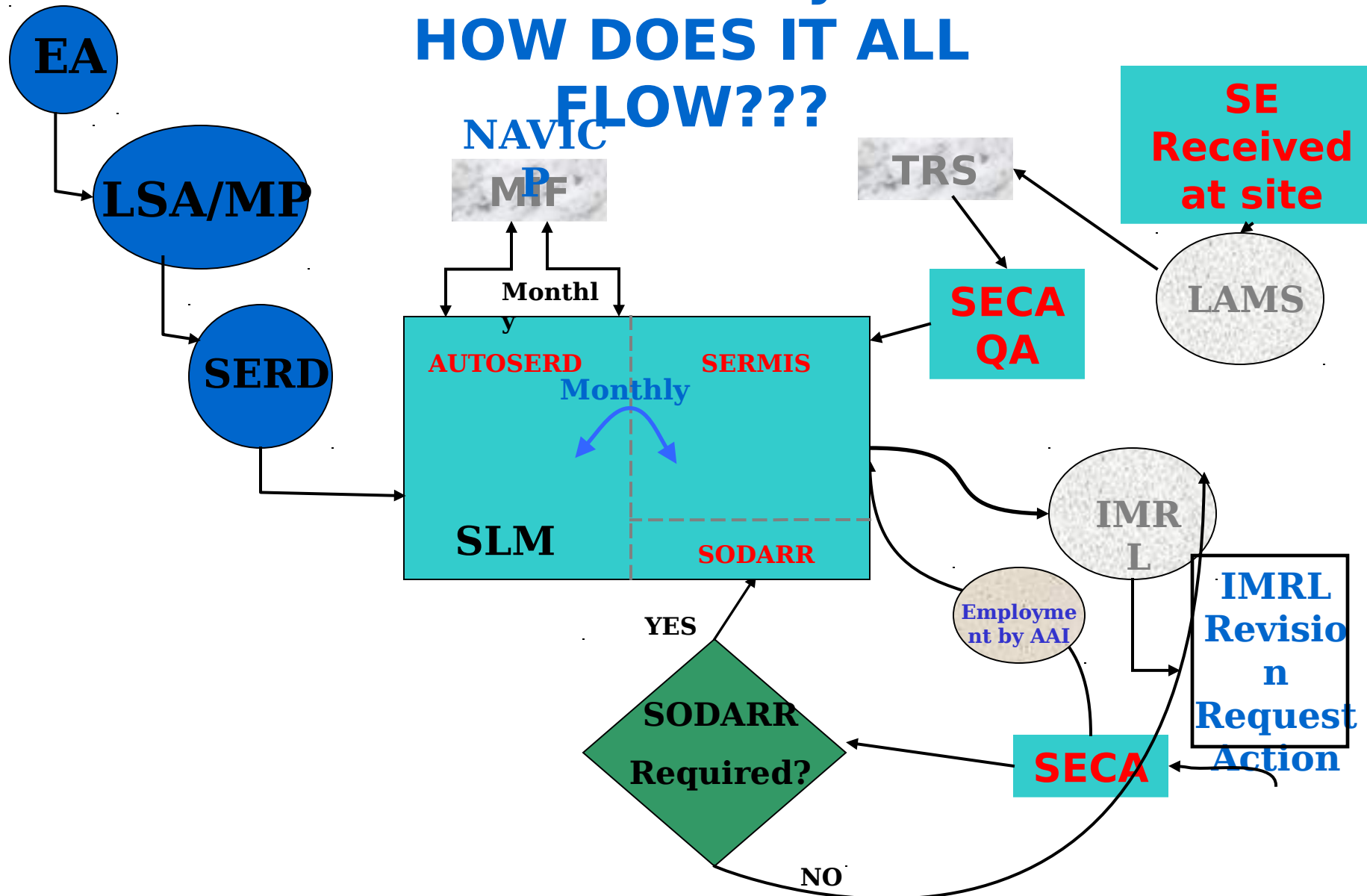
IMRL Revision Requests are generated by a specific IMRL activity for SE it either needs and isn't authorized through the IMRL, or SE authorized that the site no longer needs or for changes to specific data such as quantity, ML, Aircraft application, etc.

SECAs review the IRR and determine its validity. When approved, the SECA then determines if it is a local issue or global. For those site unique or local issues, the SECA may tailor the requirement.

For global (across the entire fleet application of the proposed change), the SECA creates a **SODARR** (SERMIS Source Data Revision Recommendation) and forwards

SOURCE Data & Inventory

HOW DOES IT ALL FLOW???



IMRL Tailoring Action

SOURCE DATA & Inventory HOW DOES IT ALL FLOW???

LAMS is the initiation point for receipt of SE inventory at a site. All technical documentation for the SE End item is entered onto a Transaction Report (aka TR) – P/N, CAGE, Serial Number, Nomenclature, etc. (Note: LAMS 4.1 populates SE data into TR for items known to source data provided IMRL manager has the source data disk information loaded into LAMS)

TRs are generated by a specific IMRL activity for SE received and then forwarded to their respective SECA for upload into SERMIS..

SECAs review the TRs and once validated, using SECA Tools software, upload the inventory into SERMIS.

Support Equipment Recommendation Data

The End Article contractor (or Government Agency such as NAWCAD Lakehurst, NADEP JAX, CHPT or NORIS, etc) recommends SE by submitting a SERD for Navy review and approval.

Navy evaluators determine the suitability of the proposed SE to perform the required maintenance, determine the logistics support requirements of the SE, determine the application and allocation of the SE and then approve the SERD.

SERD data is then loaded into AUTOSERD and cross edited for those data elements that have a one to one relationship (for example - third position of SM&R code sets lowest level authorized and can be used to cross edit against the maintenance level used to allowance the SE)

Subsequent contracting actions lead to the acquisition of the recommended SE End Items and the Integrated Logistics Support required for that End Item.

Purposes of The SERD

Defines Support Requirements for "End Articles" -- The System, Subsystem, or Equipment for which the SE is developed and is documented as the Article Requiring Support (ARS) on the SERD.

Describes Technical and Design Parameters of Specific SE to Satisfy these EA Support Requirements. Specific ranges of measurement or functionality are documented in the remarks section of the SERD.

Defines SE Acquisition Strategy Planning and Logistic Support Data.

Only vehicle that Allows for the Input and Management of SERMIS Source Data.



Major Purposes of The SERD

Initiates Program Support Inventory Control Point (NAVICP)

Actions for SE.

Maintains an SE End Item History.

Facilitates Navy Technical Review of Recommended SE.

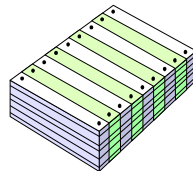
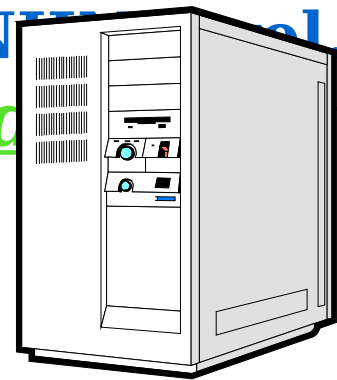
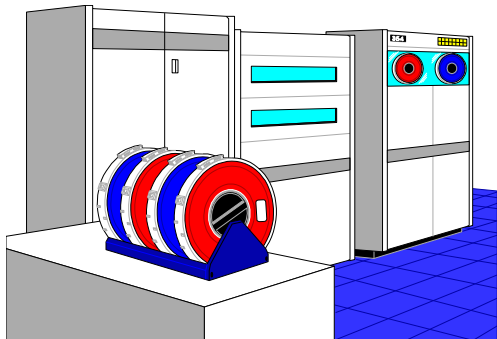
SE Allowancing/Usage at NERL
or Providing Authorized the

AUTOSERD/MIF

SERMIS

IMRL (Site Specific)

The IMRL Cannot Exist Without the SERD!



Evolution of Old SERD

Formats

Data Lists

WR-5 - PGSE SEL/CGSE SEL

Acquisition (ACQ) -- SE Only

AR-21C - Ground Support Equipment

- (N)UDI-E-21001

- (N)UDI-E-21001E

MIL-STD-2097(AS) - Support Equipment

- (N)DI-ILSS-80039

- (N)DI-ILSS-80039A

MIL-STD-2097A - Support Equipment

- DI-ILSS-80118

- DI-ILSS-80118A

MIL-STD-1388-2A/B

- DI-ILSS-80118B

- DI-ILSS-80118C

**ENHANCED
SERD**

**LSA-070
SERD**

Logistics -- All Systems

MIL-HDBK-502 Acquisition Logistics

MIL-PRF-49506 Logistics Management Information

DID-ALSS-81529 Data Products

DID-ALSS-81530 LMI Summaries

Evolution of Old SERD Formats

WR-5 Ground Support Equipment lists were segmented into Peculiar Common GSE. Under a platform such as the A-6 or E-2 you would have the same GSERD item Number with one being PGSE and the other being CGSE. If asked for A-6 SERD #0021 Which SERD was in question - the PGSE or the CGSE GSERD. This GSERD had 19 fields with 19 being a sketch of the item.

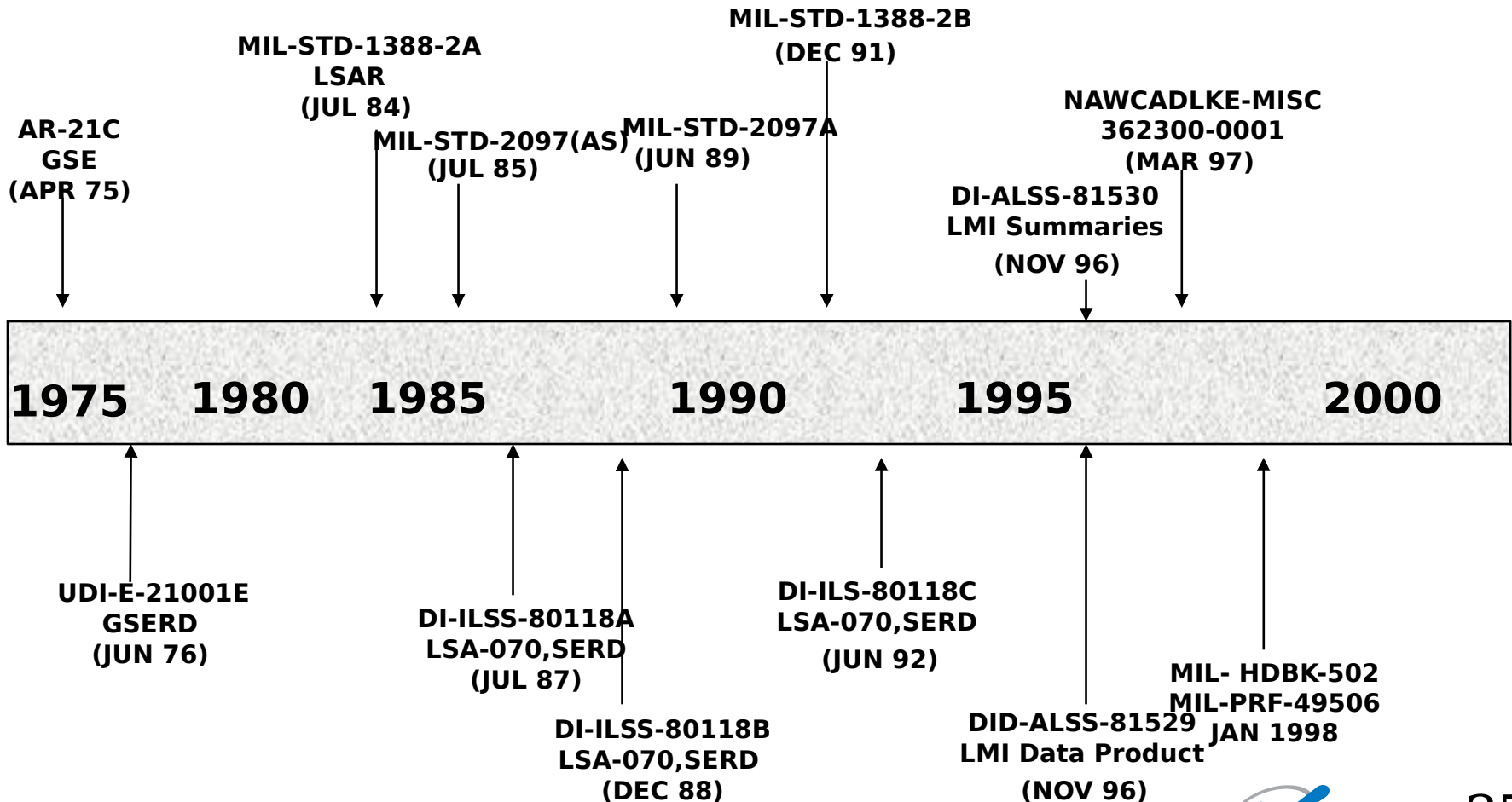
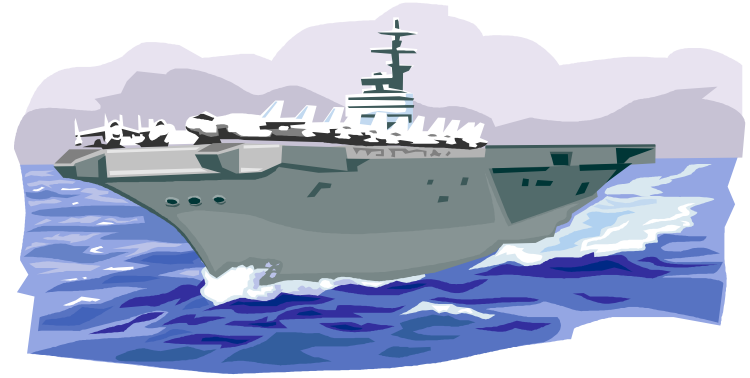
AR-21C format established the requirement that an End Article Number and one Part Number - CAGE represented by a single SERD item Number. This format designated the document as a SERD vs GSERD. The AR-21C format had 19 blocks which comprised 78 data elements.

LSA-070 (MIL-STD_1388-2A) SERD formats added design data fields and ILS fields bringing the total number of data fields on the SERD to 130.

LSA-070 (MIL-STD_1388-2B) SERD formats added Parametric data fields bringing the total number of data fields on the SERD to 210.

STANDARDS AND SERD DIDS

Chronology of Standards and SERD DIDS



GRUMMAN AIRCRAFT ENGINEERING CORPORATION
SUPPORT EQUIPMENT REQUIREMENT SHEET

1. CONTRACTOR GAC		2. END ARTICLE/NOMENCLATURE/MODEL/TYPE NO. ☒ F14A ☐ A6A ☐ A6B ☐ A6C ☐ EA6A ☐ EA6B ☐ E2A/B ☐ E2C ☐ C2A ☐ OTHER		3. CONTRACT NO. <u>N00019-69-C-0422</u> 4. MEA CONTROL NO. <u>7562520</u> EXHIBIT X	
5. SUPPORT EQUIPMENT NOMENCLATURE Checking Fixture, Loader Unit - M-61A1 Gun		AUG. LIST "I" FOR SITE "A" ONLY GOVT. GSE FOR GFE		6. FSN	
7. REQUIREMENT See Attached Pages.		8. CAPABILITY See Attached Pages.		9. FUNCTION/OPERATION See Attached Pages.	
10. THIS ITEM IS RECOMMENDED FOR MAINTENANCE LEVEL FUNCTION INDICATED		11. SUPPORTING DATA APPLICABLE			
M L F		Spec. No. <u>Applicable portions of</u> <u>MIL-S-8512B</u>		Proposal No. _____ Dwg. No. _____ Other _____	
Specific Article/System/Component by P/N and Nomenclature		Work Statement No. _____		Lead Time (ARO) <u>12 months</u>	
I Loader Unit - P/N 175F952 (MTBF - See attached pages)		12. DESCRIPTION Material: Stainless Steel Finish: Envelope Dim: 9" x 9" x 15"			
N/A		SERVICE REQUIREMENTS None			
N/A		Weight: 20 lbs.			
N/A		13. BUDGETARY NON-RECURRING PRICE		14. BUDGETARY RECURRING PRICE	
N/A		Design Engineering \$ <u>1,900.00</u> Breadboard/Mockup/Fab/Test <u>N/A</u> Proto/Preprod/Fab/Test <u>N/A</u> Qualification Testing <u>N/A</u> Tooling <u>N/A</u> Non-Recurring Total \$ <u>1,900.00</u>		\$ <u>2,400.00</u> Each For <u>4</u> Items	
N/A		15. F-14A ITEM NO. <u>0078</u> Item No. _____ Item No. _____ Item No. _____		16. P/N <u>101D4219</u> FMC <u>05606</u> 17. DATE <u>12/19/69</u> REV. _____ 18. PAGE <u>1</u> OF <u>4</u> 19. SKETCH - Separate Sheet	

NAV  AIR 38

91

M0340

GRUMMAN AIRCRAFT ENGINEERING CORPORATION SUPPORT EQUIPMENT REQUIREMENTS SHEET

7. REQUIREMENT

The Contractor has determined that a requirement exists for a fixture to check the Loader Unit, P/N 175F952, for the M-61A1, 20 MM Gun. The Loader Unit cycles belted links through the system during initial loading, reloading and maintenance down-loading.

Proper operation of the Loader Unit is dependent upon the position of the sprocket teeth relative to the gear teeth and the position of associated parts in the Unit.

Should an ammunition jam occur during loading, the Loader Unit can sustain damage which cannot be assessed by visual examination. There exists a requirement for a device capable of checking all the operating characteristics of the Loader Unit, plus all interface surfaces between the Loader Unit and Transfer Unit, P/N 175F632.

8. CAPABILITY

A Checking Fixture, P/N 101D4219, which can be mounted on the Loader Unit is designed to fulfill the requirements of Block 7. The Checking Fixture has provisions for:

- (1) Checking proper sprocket -gear alignment and determining if damage has occurred to related sprocket-gear pairs.
- (2) Determining if unacceptable damage has been sustained at the cast housing mounting points.
- (3) Checking sprocket to sprocket relationships.
- (4) Holding the Loader in such a manner that all checking can be conveniently performed. A Storage Box is provided to protect the Fixture when not in use.

9. FUNCTION/OPERATION

A. Function

Loader Unit Checking Fixture is to be used in the complete examination of all parts of the Loader Unit which affect the processing of links and ammunition through the Unit, and which affect the attachment of the Loader Unit to the Transfer Unit.

20. ITEM NO.	0078
21. DATE	12/19/69
22. REVISION	
23. PAGE	2 OF 4

WR5 Sample Pg3

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GRUMMAN AIRCRAFT ENGINEERING CORPORATION SUPPORT EQUIPMENT REQUIREMENTS SHEET

M0340

9. FUNCTION/OPERATION (Continued)

The Transfer and Loader Assembly must be removed from the Aircraft before mounting the Loader Unit Checking Fixture. Suitable hand tools are necessary for the removal/installation of the Assembly from the Aircraft and the removal/installation of the Loader Unit from the Transfer and Loader Assembly.

B. Operation

- 1.) Mount the Checking Fixture to the Loader Unit after removal of the Loader Unit from the Transfer and Loader Assembly.
- 2.) Check the sprocket-gear alignment and the relation of sprocket teeth to gear teeth.
- 3.) With the Go/No-GO Gages check the stripper and the linker sprockets in each of the Unit's timed position.
- 4.) Checking, timing and alignment procedure must be repeated if any defective components are replaced.
- 5.) Remove Loader Unit from Checking Fixture and install on Transfer Unit. Place Checking Fixture in Storage Box.

The above operation requires one man for approximately two hours.

10. MTBF - Failure rate available only in terms of Rounds Between Failure (RBF).

Loader Unit - 66,000 RBF

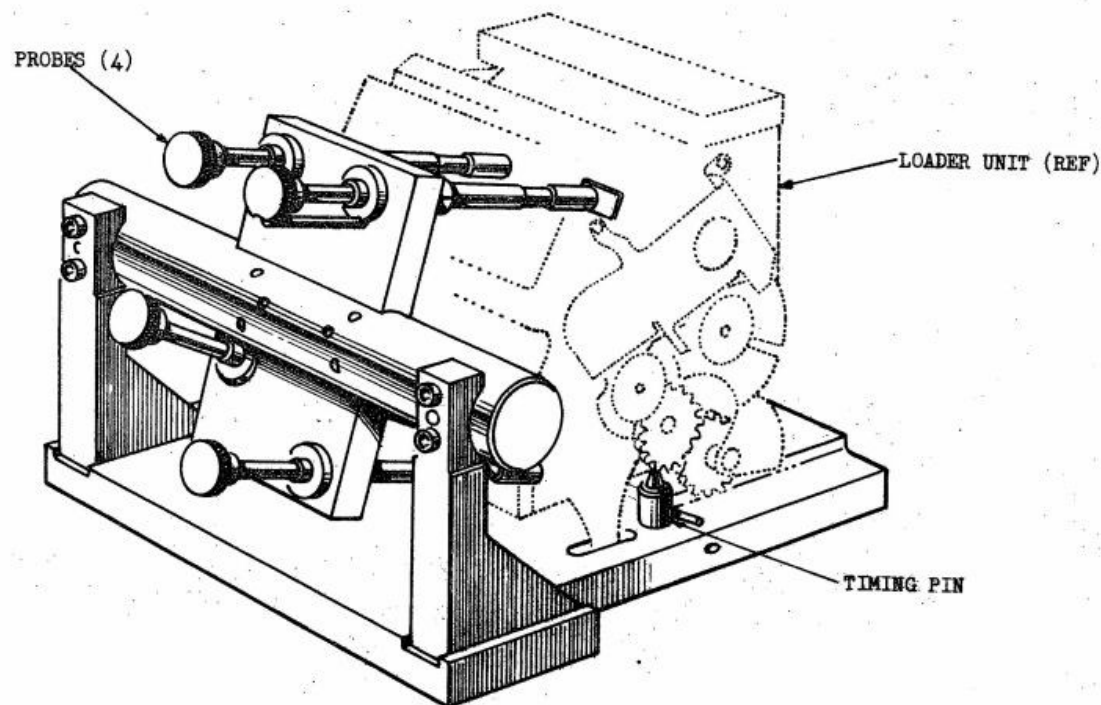
20. ITEM NO.	0078
21. DATE	12/19/69
22. REVISION	
23. PAGE	3 OF 4

WR5 Sample Pg4

23

GRUMMAN AIRCRAFT ENGINEERING CORPORATION SUPPORT EQUIPMENT REQUIREMENTS SHEET

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P/N 101D4219

CHECKING FIXTURE, LOADER UNIT, M61A1 GUN

20.	ITEM NO.	0078
21.	DATE	12/19/69
22.	REVISION	
23.	PAGE	4 OF 4

MIL-PRF-49506 – Performance Specification Logistics Management Information

MIL-PRF-49506 – Performance Specification Logistics Management Information, was developed by the Joint Services Technical Working Group under the direction of the Office of the Deputy Undersecretary of Defense for Logistics.

It is the replacement document for MIL-STD-1388-2B (LSAR) and may be used on all future acquisition programs. It provides a contractual method for acquiring support and support related engineering and logistics data from contractors, represents a fundamental change in the way data requirements are levied on contracts, and does not contain any "how to's".

This new specification is designed to minimize oversight and government-unique requirements and allow contractors maximum flexibility in designing systems and developing, maintaining, and providing support and support related engineering data.

The LMI is maintained by the USAMC LOGSA, Redstone

MIL-PRF-49506 - Performance Specification Logistics Management Information

Describes the information required by the government to perform Acquisition Logistics Management functions.

INTENDED USE - This specification contains requirements which are applicable to the acquisition of military systems and equipment. The acquisition logistics management information should be in sufficient detail to allow for program decision making, assessing program status, planning, and ultimately item sustainment. The detail required of this information should be based on program specifics such as, but not limited to, life cycle phase, type of program, hardware complexity, operations and support concept, and degree of program control.

ELECTRONIC DELIVERY OF LMI - Electronic data interchange, online access, and all other automation issues are outside the scope of the MIL-PRF-49506, LMI and must be addressed separately using other appropriate documents such as MIL-STD-1840, Automated Interchange of Technical

DID-ALSS-81529 & DID-ALSS-81530

DID-ALSS-81529 - Data Products

The LMI Data Product(s) consists of data that a requiring authority needs to develop their internal materiel management processes. This data contains information in the areas of provisioning, cataloging, packaging, and support equipment.

Format. The Data Product(s) must be in accordance with the associated format in Appendix B of MIL - PRF - 49506.

DID-ALSS-81530 - LMI Summaries

The LMI Summaries consist of information that a requiring authority can use to perform logistics planning and analysis, assess design status, influence program decisions, and verify contractor performance meets system supportability requirements.

Format. The formats for LMI Summaries are not dictated by MIL - PRF - 49506, but are left to the discretion of the requiring authority and the contractor.

SERD Functional Areas of Expertise

APPROVAL/ACQUISITION REVIEW

OFFICE (ARO)

- The authorized SERD and SLM approval activity based on End Article.

TECHNICAL REVIEW OFFICE (TRO)

- The commodity and technology experts who validate requirements and influence the design and use of SE independent of the End Article.

LOGISTIC REVIEW OFFICE (LRO)

- The Logistic Management Specialists who determine the support solution for proposed item of SE.

PMA-260, as the overall SE Management authority, designates field activities to perform this function for assigned End Articles. For other than PMA-260 End Articles, requires that PMA to coordinate changes through PMA-260 (also used for SE Master Plans and SE Metrics reporting)

ARO Functional Areas of Expertise

ARO Responsibilities:

- Overall administration of Integrated Product Team in support of a specific End Article PMA. Serves the role of Coach, Teacher, Mentor, Trainer, & Facilitator to the Team
- Electronically forwarding SERD Notification to IPT Members (TRO, LRO, etc) including other activities (NSWC Corona). Note: Selected Programs are still manually mailing copies of SERDs
- Ensuring entry of all government data elements, validation, modification, and correction of data supplied by contractor, TRO, and LRO
- When SERD is in control, evaluates design approach for all recommended applications of the SE, Validation of SE NIIN Allowances to ensure avoidance of dual allowancing, and sets Custody Codes for all applications.
- Administration of Acquisition and Logistic support considerations

TRO Functional Areas of Expertise

TRO Responsibilities:

- Evaluate proposed SE against Existing SE and Commercial off the Shelf SE
- Determine if the proposed SE support solution is optimal and proposes alternative support solutions if proposal is not optimal.
- Determines whether any qualification testing is required (IE EMI)
- Validates SE requirement against the EA's MP / LSA
- Develops 3rd position of SM&R Code based on EA MP/LSA Maintenance Level tasking.
- Develops 6th position of SM&R Code based on EA MP/LSA tasking.

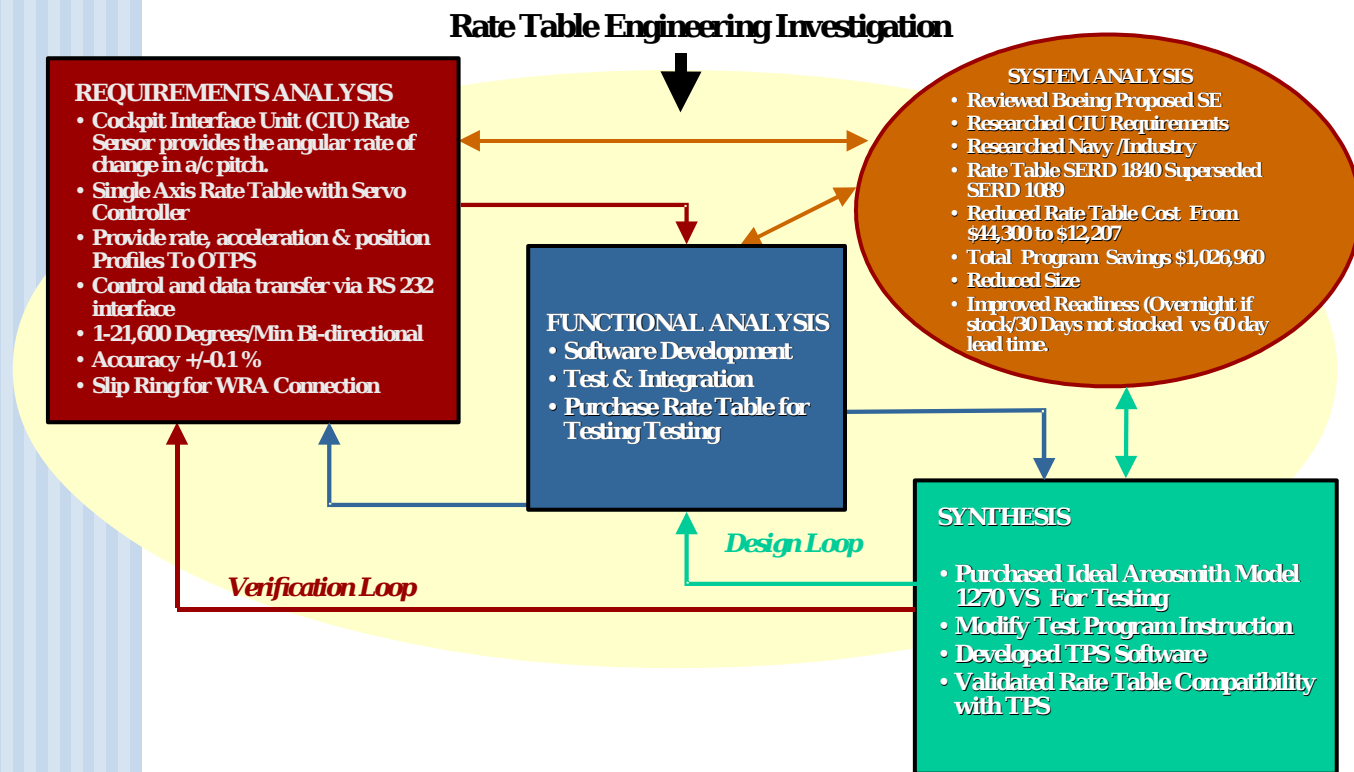


TRO Example

Avionics SERD Process



Example SE Engineering Analysis



Summary: SE Process Review Resulted in Total Program Savings of \$1M

LRO Functional Areas of Expertise

LRO Responsibilities:

- **Develops initial Source, Maintenance and Recoverability code (SM&R) 4th/5th position systems.**
- **Performs formal Level of Repair Analysis on SE.**
- **Defines Technical manual requirements for SE (IE standalone SE pub or incorporate into Weapon Systems pub)**
- **Provisioning support of repairable SE End Items**
- **Establishes and maintains ILIDS entries**
- **Plans, Budgets and order/creates Logistics Products IAW approved Maintenance Philosophy on Proposed SE.**

ILIDS

Description

The Integrated Logistics Information Data System (ILIDS) contains critical non-classified information and provides the status of logistics elements for the acquisition of Peculiar Support Equipment (PSE) and Common Support Equipment (CSE), while also providing logistics planning, status and delivery.

ILIDS tracks Milestone significant dates such as the Scheduled and Actual Initial Operational Capability (IOC), SE Delivery, Maintenance Plan Delivery and Approval, Interim Support Items List (ISIL) Delivery, Material Support Date (MSD), Training and Funded Delivery, Calibrations Measurement Requirements Summary (CMRS) Funded, Delivery and Approval, and Provisioning Technical Documentation Delivery which identifies acquisition milestones and dates during generation and provisioning of data for NAVICP. It not only serves as a status tracking system, but is also the



NAVICP AIR 50

AUTOSERD

Description

The AUTOSERD system along, with the SERD process provides a consistent and coordinated SE requirement determination process and passes accurate SE source data to SERMIS for production of the Individual Materials Readiness Lists (IMRLs). IMRLs identify fleet activity SE requirements, provide a basis for SE procurement, and aid decisions on overall readiness posture, budget forecasts, and redistribution of assets.

AUTOSERD facilitates the SERD review and approval amongst the Naval Air Systems Command (NAVAIR) and its cognizant field activities along with the Naval Inventory Control Points (NAVICP) in Philadelphia and Mechanicsburg as defined in the AMMRL Program Instruction (NAVAIRINST13650.1C). AUTOSERD interfaces with NAVICP's Master Item File (MIF) and is the sole source of input for requirements data to the Aircraft Maintenance Material Readiness List (AMMRL) program's Support Equipment Resources Management Information System (SERMIS)

AUTOSERD

Functions

- The primary computer system for data collection and transfer of Aviation Support Equipment (SE) requirements and acquisition information
- Maintains SE requirements that are documented in support of aircraft, missiles, weapons systems, installed avionics, engines, and other End Articles for high operational readiness
- Is an online, real-time system which provides immediate and accurate SE information for Field activity and NAVICP Philadelphia and Mechanicsburg technical personnel to review and analyze SE data
- SERD input/approval by Naval Aviation Depots in North Island, Jacksonville & Cherry Point; the Naval Air Warfare Center Weapons Division in Pt Mugu; Naval Surface Weapons Center in Crane and the Naval Air Warfare Center Aircraft Division in Lakehurst, input and approve SERDs
- Capability for SERD input/approval by additional Navy users at other NAVAIR locations is resident in

AUTOSERD Benefits

Accurate Source Data

AUTOSERD XEDITs validate **direct relationships**. Technical and logistics personnel perform additional manual quality assurance using **program expertise and knowledge of general relationships**. QA capability also can be invoked at the NIIN or End Article (PMA) level or for all new SE End Items.

Through put TAT to NAVICP completion

Accurate SERD data reduces NAVICP processing time / Work-Hours. Reduced NAVICP processing time expedites updates to NAVICP files and SERMIS (IMRL)

Expeditious transmission of accurate data to SERMIS

Accurate/up-to-date IMRL data (requirements, allowance, applications, physical characteristics, etc) and accurate/up-to-date IMRL manager inventory = cost savings (identifies only the required and on-hand SE for each activity to accomplish their mission). Accurate input for aviation consolidate **RESULTING IN INCREASED FLEET READINESS** validated allowance list (SHORCAL) for spares/GFAE requirements.

SEMS (AUTOSERD & SERMIS)

Benefits

- Improved Decision Making
- Multi-Tasking
- Raises SERD Processor Proficiency
- Acquisition Community SME mechanism for knowledge creation, capture, reuse and update.
- Graphical User Interface
- Embedded Tools
- Historical Cost Information
- Overcomes Geographical boundaries
- SE MARKET PLACE for program execution, ACQ management, Logistics Support Planning, Etc.

AUTOSERD/MIF INTERFACE



NAVICP performs SERD processing prioritization via NAVICP's AUTOSERD workload screen. The screen may be sorted by and NAVICP may work SERDs in groups (such as by NIIN or by type of work).

NAVICP SERD process SERDs as SONAR/P receives SERDs, immediately CN List upon WSM approval (or after QA if invoked).

-- NAVICP performs MIF updates using FMT (File Management Tool)

-- SERDs are held in the status of pending still until NAVICP's approval.

ACQ_WORKLOAD - [SERDs Worklist]

File Edit Block Field Record Query SLM Forms Reports Window Help

UPDATE EGANJ

NAVICP / SPCC WORKLOAD

NIIN		SERD		DEST	TYPE OF WORK	NEW NAVY ITEM	DAYS	PENDING
77222 LLERFJDOM	88	3130148310	0053		NAVICP PHIL	GENERAL	NEW	309 09-FEB-2000
1R6625 000978854	FA	A-6	1959	D	NAVICP PHIL	F1 DELETE	REVISED	379 01-DEC-1999
1R6625 000978854	FA	A-6	1959	D	NAVICP PHIL	F1 DELETE	REVISED	241 17-APR-2000
6R4920 013110261	FA	A-6	3980	F	NAVICP PHIL	GENERAL	REVISED	79 26-SEP-2000
6R4920 013130132		A-6	4080	E	NAVICP PHIL	GENERAL	REVISED	79 26-SEP-2000
3G6850 007037406		A-6	A147	F	NAVICP PHIL	GENERAL	REVISED	1038 10-FEB-1998
3G6850 007037406		A-6	A147	F	NAVICP PHIL	GENERAL	REVISED	56 19-OCT-2000
7Z6625 010947716	TE	A-6	A260	F	NAVICP PHIL	GENERAL	NEW	259 30-MAR-2000
6R6625 011933545	TE	A-6	A405	B	NAVICP PHIL	GENERAL	SUPERSEDURI	57 18-OCT-2000
6R6625 011933545	TE	A-6	A405	B	NAVICP PHIL	GENERAL	SUPERSEDURI	380 30-NOV-1999
6R6625 011933545	TE	A-6	A405	B	NAVICP PHIL	GENERAL	SUPERSEDURI	241 17-APR-2000
7Z6625 013558241	TE	A-6	A426	A	NAVICP PHIL	GENERAL	SUPERSEDURI	407 03-NOV-1999
1R6130 014126478		A-6	A438		NAVICP PHIL	GENERAL	SUPERSEDURI	374 06-DEC-1999
6R6625 014262550		A-6	A448		NAVICP PHIL	GENERAL	SUPERSEDURI	435 06-OCT-1999
2V0000 LLPFS7680		A-7	3360	B	NAVICP PHIL	GENERAL	UNDEFINED	241 17-APR-2000
1R6625 001408183	TE	A-7	A110	C	NAVICP PHIL	GENERAL	SUPERSEDURI	57 18-OCT-2000

Record: 15/7

AUTOSERD/MIF INTERFACE

ACO_WORKLOAD - [SERDs Worklist]

File Edit Block Field Record Query SLM Forms Reports Window Help

UPDATE EGANJ

NAVICP / SPCC WORKLOAD

NIIN	SERD	DEST	TYPE OF WORK	NEW NAVY ITEM	DAYS	PENDING
77 222 LLERFJDOM 88	3130148310 0053	NAVICP PHI	GENERAL	NEW	309	09-FEB-2000
1R6625 000978854 FA	A-6 1959 D	NAVICP PHI	F1 DELETE	REVISED	379	01-DEC-1999
1R6625 000978854 FA	A-6 1959 D	NAVICP PHI	F1 DELETE	REVISED	241	17-APR-2000
6R4920 013110261 FA	A-6 3980 F	NAVICP PHI	GENERAL	REVISED	79	26-SEP-2000
6R4920 013130132	A-6 4080 E	NAVICP PHI	GENERAL	REVISED	79	26-SEP-2000
3G6850 007037406	A-6 A147 F	NAVICP PHI	GENERAL	REVISED	1038	10-FEB-1998
3G6850 007037406	A-6 A147 F	NAVICP PHI	GENERAL	REVISED	56	19-OCT-2000
7Z6625 010947716 TE	A-6 A260 F	NAVICP PHI	GENERAL	NEW	259	30-MAR-2000
6R6625 011933545 TE	A-6 A405 B	NAVICP PHI	GENERAL	SUPERSEDURE	57	18-OCT-2000
6R6625 011933545 TE	A-6 A405 B	NAVICP PHI	GENERAL	SUPERSEDURE	380	30-NOV-1999
6R6625 011933545 TE	A-6 A405 B	NAVICP PHI	GENERAL	SUPERSEDURE	241	17-APR-2000
7Z6625 013558241 TE	A-6 A426 A	NAVICP PHI	GENERAL	SUPERSEDURE	407	03-NOV-1999
1R6130 014126478	A-6 A438	NAVICP PHI	GENERAL	SUPERSEDURE	374	06-DEC-1999
6R6625 014252550	A-6 A448	NAVICP PHI	GENERAL	SUPERSEDURE	435	06-OCT-1999
ZV0000 LLPFS7680	A-7 3360 B	NAVICP PHI	GENERAL	UNDEFINED	241	17-APR-2000
1R6625 001408183 TE	A-7 A110 C	NAVICP PHI	GENERAL	SUPERSEDURE	57	18-OCT-2000

Record: 15/?

AUTOSERD/MIF INTERFACE

THE NAVICP APPROVAL PROCESS IS NOW A TWO CLICK
PROCESS

IN THE APPROVAL TAB (SEE BELOW) CHECK THE BOX NEXT
TO THE
BUTTON

AUTOSERD (ACQ) - [Autoserd (ACQ_02_UPD v1.0)]

File Edit Block Field Record Query SLM Forms Reports Window Help

UPDATE EGANJ

End Article A-6 Item 3980 ☒ Cntl Status PENDING
Rvsn Code F Del Status D POC

NSN 6R X 4920 013110261 FA
Prime NIIN
Delete Code B8
Supersedure Code

Pn 128SAV62230-1
Cage 26512 Full Name ID SET, HTS, HARM CLC

NIIN Equiv PN BOI ARS/GFAE Supersedure Remarks IMRL Rmks Rev Rmks App Status

Role	Username	Pending	Approved	Disagree	Modified by
SLM MGR	HAMPTONS	26-SEP-2000	26-SEP-2000	☐	HAMPTONS
NAVICP	EGANJ	26-SEP-2000		☐	
				☐	
				☐	
				☐	

Type of Work for NAVICP GENERAL
Destination Code NAVICP PHL

CANCEL OK

Check Box

OK BUTTON

NAVICP Cataloging Process

NAVICP generates Transactions to DLSC to perform the following catalogue services:

Accomplishing Item Name Assignment by designating a commonly-recognized noun or noun phrase to an item of supply. Based on subsequent availability of technical data and ongoing tool development, the item name may be refined later.

Determining the Federal Supply Class (FSC) of an item of supply by establishing its relationship with other items, based on assigned item name and/or physical and performance characteristics. The FSC may be refined later, based on subsequent availability of technical data and ongoing tool development.

Preparing and Maintaining an Item Identification (II) by recording the characteristics data (in accordance with the Military Standard Item Characteristic Coding Structure (MILSTICCS)) to describe the physical and performance attributes of an item of supply.

Accomplishing Item Entry Control (filtering and scrutinizing a candidate for inclusion in the Federal Catalog System (FCS)) by manually and mechanically comparing a candidate to existing items and recognized standards.

Performing Technical Data Validation by confirming the quality of technical data used for item name assignment, FSC determination, and item identification.

Providing Provisioning Support by taking actions to assist the best selection, procurement, and cataloging of items of supply required to sustain weapon

Continued>

NAVICP Cataloging Process

Continue

Performing Data Recordation and Maintenance actions necessary to ensure complete, accurate, and current logistics data records (excluding item characteristics data) for an item of supply. These actions are normally accomplished as a result of item manager requests, system incompatibility notices, technical data revisions, interchangeability and substitutability (I&S) decisions, and periodic record reviews.

Initiating and enhancing Cataloging Tools documents and procedures required to research, record, and organize item logistics information. Cataloging Tools include item names, definitions, FSC Structure, Federal Item Identification Guides (FIIGs), and other publications.

Performing Supply Support Request (SSR) Processing (resulting from a request by a Service to be a user of a consumable item managed by another Service or Agency) by accomplishing cataloging actions which record user interest, assign management data, and review/accept substitutes offered.

Performing Data Dissemination functions, which provide logistics information (written, telephonic, or electronic) to customers who need it at every level of the supply system.

Developing Cataloging Procedures and Systems to implement cataloging policies. This includes written directives, manual methods, and automated information systems in various combinations, including FLIS.

Developing Cataloging Policy to support the general principles governing the relationship of all cataloging elements/functions to each other as well as to

MASTER ITEM FILE

ADP System used by NAVICP Philadelphia and Mechanicsberg.

NAVICP Philadelphia and Mechanicsberg maintain two separate databases

with common supply system data elements

- * Contains supply significant data**
- * Interfaces with AUTOSERD via dataset comparisons / updates on a bi-monthly alignment schedule, will soon be updated on a monthly basis**

*** Numerous files are available for query (subsystems)**

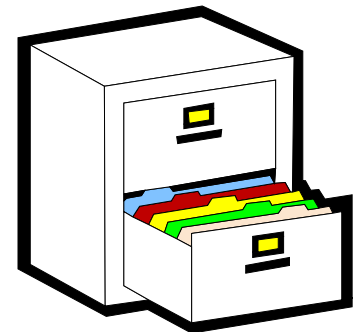
MIF Commonly Used Files

Master Data File (MDF)

- Supply data for all active inventory items**

Technical Reference File (TRF)

- Active permanent NICN items file**
 - LL GSE = Local Assembly/Manufacture**
 - LL PF1 = Depot Level Only**
 - LL SWE = Software**
 - LL STD = Calibration Standard**



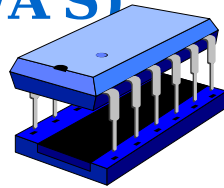
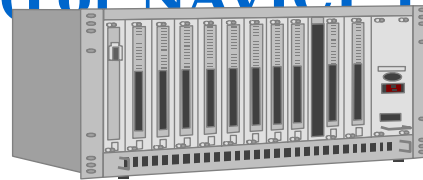
MORE MIF COMMONLY USED FILES

Program Support Interest File (PSI)

-- Items not managed by that particular NAVICP that the NAVY is a registered user for (Non-MIPR type items)

Weapon System File (WSF)

-- E/A Top-down breakdown (For NAVICP Phil. E/A'S)



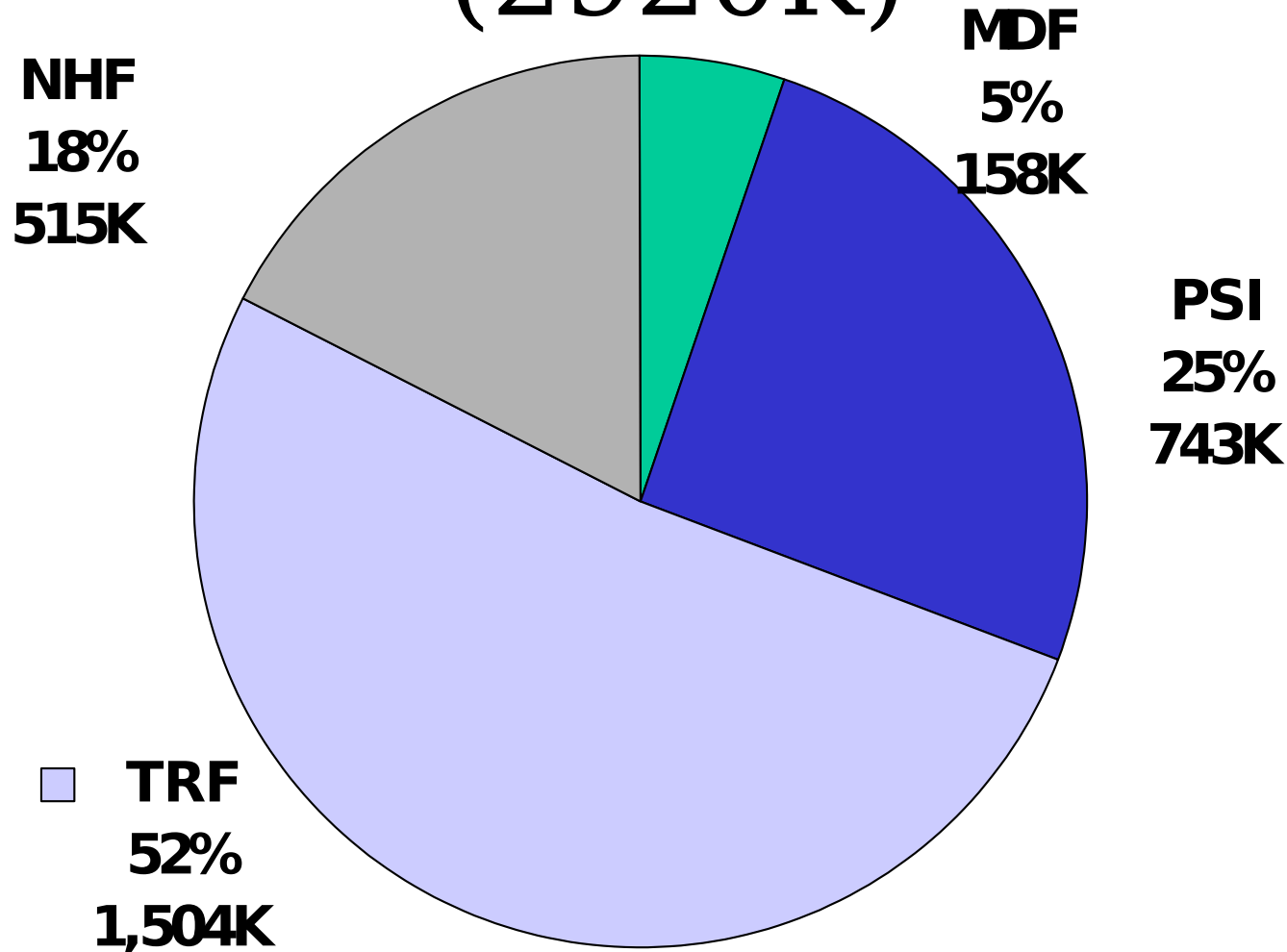
NIIN History File (NHF) {THE "DEAD" FILE*}

-- Items no longer managed or in the inventory

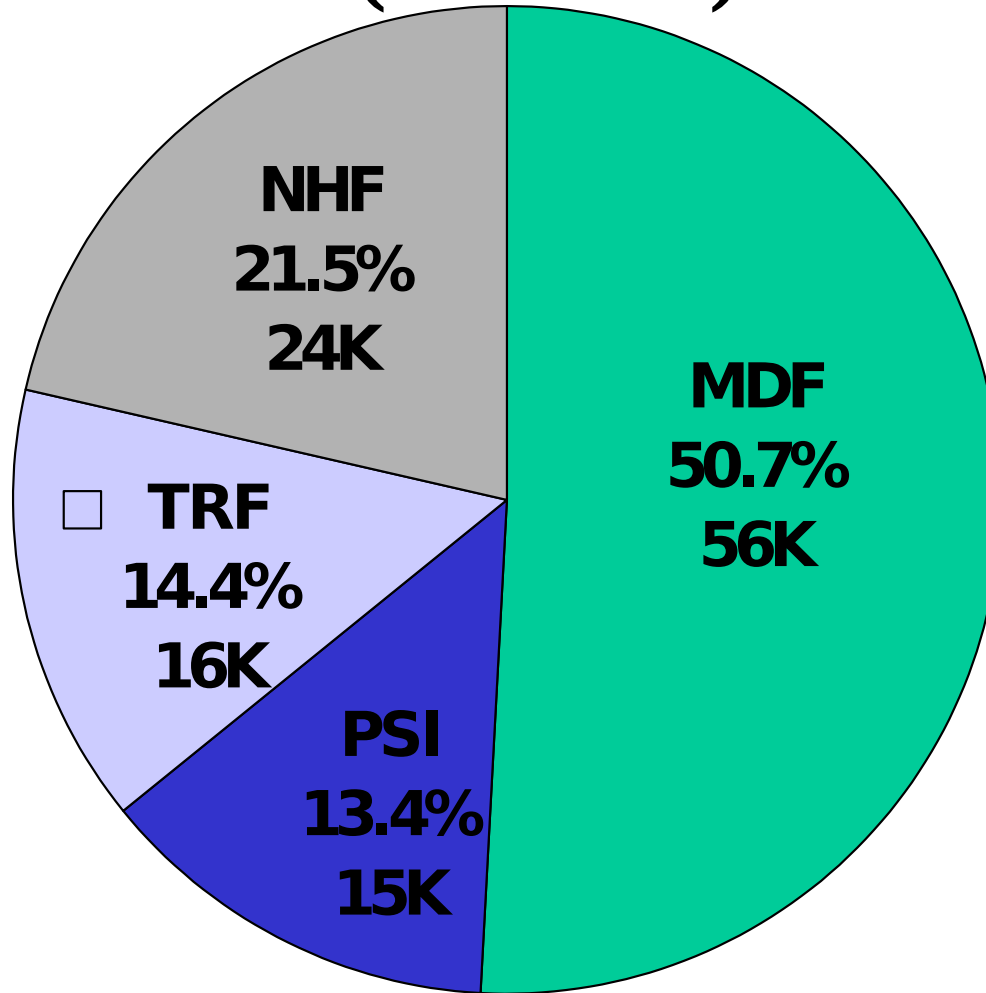
* To reinstate an item from NIIN History File, You must reprovision and NAVICP will have to re-catalogue the item, causing assignment of a NEW NIIN!



NAVICP NIIN WORLD (2920K)



NAVICP SE NIIN WORLD (111K)



SERD

Preparation

Prime Weapon System Contractors

Aircraft (MCAIR / GRUMMAN / LOCKHEED / ETC)

Weapons (BOEING / ETC)

Avionic System (COLLINS RADIO / SPERRY / ETC)

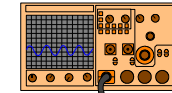


Prime SE Manufacturers

ATE (General Electric / Harris / Emerson / Etc)

Raytheon Indianapolis

Other SE (Hewlett-Packard / Fluke / Etc)



NAVAIR Specified Activities

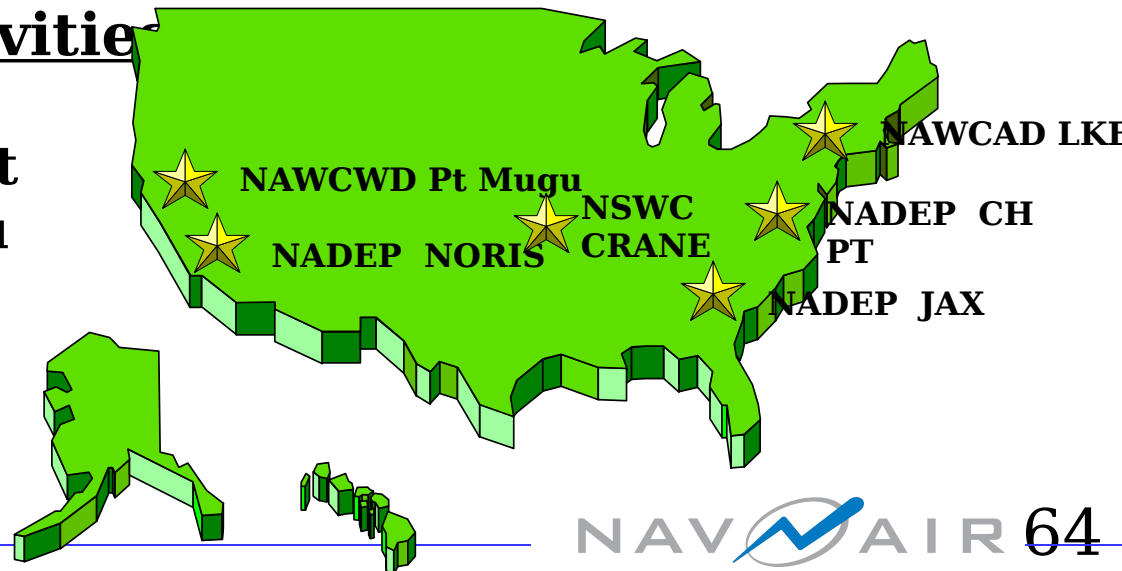
NAVAVNDEP (3)

NAWCAD/Lakehurst

NAWCWD/Pt. Mugu

NSWC Crane IN

etc.



NARRATIVE PROPOSAL (aka AR21 FIGURE 1A)

Prepared by Originator (Contractor or Government Activity)

Describes the End Article Support Requirement

-- Part 1 - Functional Analysis: Describes the Requirements from

the LSA/MP on the End Article

-- Part 2 - Recommended (proposed) Solution: Proposes a

Conceptual Design for a New Item, or Summarizes the Technical Characteristics and Capabilities of any Existing SE End Item

- Size/Weight, Material Info/Descriptive Info



FIGURE 1A

ALSO:

Documents Contractor's Determination of SE Non-proliferation Search based on screening documents:

- **Existing SE**
- **Off-the-Shelf Commercial Equipment**
- **Modified Existing SE**
- **Development of New SE End Items**

Figure 1a Information and Figure 1b Data = An Enhanced SERD

Source: MIL-STD-2097A Through ILS Definition Specification (ILSDS)



Fig 1A Functional Analysis

SUPPORT EQUIPMENT RECOMMENDATION DATA

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP / 26512
CONTRACT NO. N00019-87-C-001
END ARTICLE IDENT. 1 AIRCRAFT E2
SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-2
FIG. 1a PAGE NO.
REVISION NO. E360
DATE ORIGINAL 3/26/88

PART I FUNCTIONAL ANALYSIS

THIS SERD REPRESENTS AN RTBS CONFIGURATION WHICH WILL BE CAPABLE AT DEPOT LEVEL, OF SUPPORTING AN/APS-125, AN/APS-138, AN/APS-139, AND AN/APS-145 RADAR SYSTEM AS FOLLOWS:

- EQUIPMENT AND ALIGNMENT AND ACCURATE AND OF ALL SHOP
- * FAULT DETECTION AND ISOLATION: PROVIDE THE CAPABILITY, IN CONJUNCTION WITH ASSOCIATED TEST SELECTED RADAR WRA'S SUPPLIED WITH RADAR TEST BENCH SET (SEE TABLE I) TO ENABLE TESTING FAULT ISOLATION TO THE LOWEST REPLACEABLE PART OF THE RADAR WRAs.
 - * ALIGNMENT: PROVIDE THE CAPABILITY IN CONJUNCTION WITH ASSOCIATED TEST EQUIPMENT, TO MAKE RAPID ALIGNMENT OF THE WRAs AND THEIR SRAs.
 - * REPAIR: PROVIDE THE CAPABILITY IN CONJUNCTION WITH ASSOCIATED TEST EQUIPMENT, TO ENABLE REPAIR (I OR D LEVEL) REPAIRABLE PARTS.

ELECTRICAL REQUIREMENTS PROVIDE THE FOLLOWING FOR EACH WRA AND SRA:

1. PRIMARY AND SECONDARY POWER
2. INPUT STIMULI (RF, IF, VIDEO, AC, DC)
3. OUTPUT LOADS (RF, VIDEO, DC)
4. PROVIDE THE CAPABILITY FOR WRA MEASUREMENT AND MONITORING OF ALL NECESSARY ELECTRICAL

PARAMETERS.

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

Fig 1A Function Analysis

SUPPORT EQUIPMENT RECOMMENDATION DATA

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512
CONTRACT NO. _____ N00019-87-C-001
END ARTICLE IDENT. _____ 2 AIRCRAFT
E2 _____
SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2 _____
FIG. 1a PAGE NO. _____
REVISION NO. _____ E360 _____
DATE _____ ORIGINAL
3/26/88
REQUIRED WITH _____

PART I FUNCTIONAL ANALYSIS (CONT'D)

ENVIRONMENTAL REQUIREMENTS - PROVIDE EACH WRA AND SRA AS REQUIRED WITH

- 1. COOLED AIR AND/OR LIQUID COOLANT.
- 2. NITROGEN PRESSURIZATION FOR HIGH VOLTAGE COMPONENTS
- 3. CAPABILITY FOR READY MEASUREMENT, AND MONITORING OF ALL NECESSARY ENVIRONMENTAL PARAMETERS.

MOUNTING REQUIREMENT - PROVIDE FOR BENCH MOUNTING OF EACH OF THE WRA's WITH PROVISIONS FOR EASY REMOVAL AND INSTALLATION
OF THE WRA AND/OR ITS SRA. IN THE TEST POSITION, PROVISIONS SHALL BE MADE TO SECURE AND EASILY MOVE THE ASSEMBLY UNDER TEST.

SAFETY REQUIREMENTS - MAKE SAFETY PROVISIONS FOR EQUIPMENT AND OPERATING PERSONNEL,

WRA OPERATING TIME - MAKE PROVISIONS TO MINIMIZE THE OPERATING TIME OF WRA's, NOT DIRECTLY UNDER TEST, OR REQUIRED FOR THEIR
OPERATION.

HIGH POWER REQUIREMENTS - HIGH POWER TESTING OF THE DUMMY LOAD, ELECTRICAL

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

Fig 1A Service Rqmts

SUPPORT EQUIPMENT RECOMMENDATION DATA

PART I FUNCTIONAL ANALYSIS (CONT'D)

THE RADAR TEST BENCH SET (RTBS), IN CONJUNCTION WITH ASSOCIATED TEST EQUIPMENT, PROVIDES FOR:

- 1. THE FAULT INDICATION OF THE RADAR, WRAs AND FAULT ISOLATION TO THE LOWEST REPLACEABLE PART.
- 2. ALIGNMENT OF WRAs AND SRAs.
- 3. REPAIR OF ALL SHOP (DEPOT LEVEL) REPAIRABLE PARTS.

DESCRIPTION SERVICES REQUIREMENTS

- A. ELECTRICAL:
- 1. AC, 3 PHASE, 115 VOLTS + 1% 400 Hz + 5%, 30KVA.
 - 2. AC, 1 PHASE, 60 Hz TO CONVENIENCE OUTLET BOX FOR USE OF TEST EQUIPMENT 3.5 KVA .
 - 3. DC, 27 + 2 VOLTS, 37 AMPS.

- B. COOLING:
- 1. COOLING AIR - APPROXIMATELY 20 lb/min AT 55 DEGREES F MAX AND 4 INCH STATIC MIN
 - 2. COOLING WATER - APPROXIMATELY 17 GALLONS PER MINUTE (MIN) AT 105 DEGREES F MAX AT 20PSIG (MIN) AND 150 PSIG (MAX) (FRESH)

THERE IS NO KNOWN ITEM IN THE GOVERNMENT INVENTORY THAT MEETS THE ABOVE REQUIREMENT.

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512

CONTRACT NO. _____ N00019-87-C-001

END ARTICLE IDENT. _____ 3 AIRCRAFT
E2 _____

SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2 _____

FIG. 1a PAGE NO. _____

REVISION NO. _____ E360

DATE ~~3/26/88~~ ORIGINAL

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

SUPPORT EQUIPMENT
RECOMMENDATION DATA

CONTRACTOR / PSCM - GRUMMAN AEROSPACE CORP /
26512
CONTRACT NO. _____ N00019-87-C-001

END ARTICLE IDENT. _____ 4 _____ AIRCRAFT
E2 _____
SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2 _____
FIG. 1a PAGE NO. _____
REVISION NO. _____ E360 _____
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3/26/88

PART II RECOMMENDED SOLUTION

THE RTBS, THROUGH ITS CABLE HARNESS GROUPS AND WRA/SRA EXTENDERS, PROVIDES THE PRIMARY POWER TO EACH WRA AND ELECTRICAL STIMULI AND LOADING FOR EACH WRA AND SRA.

THE RTBS PROVIDES THE AIR AND/OR LIQUID COOLING, AND NITROGEN GAS PRESSURIZATION FOR ANY OF ITS WRAs OR SRAs, OR A HIGH POWER TRANSMISSION LINE SECTION (INCLUDING THOSE THAT ARE PART OF RTBS) REQUIRING THIS PROVISION. THE NITROGEN GAS WILL BE SUPPLIED BY THE PUMP, ROTARY, POWER DRIVEN HD-902A/APS-120.

THE RTBS PROVIDES THE TEST POINTS AND PANEL METERS FOR MEASURING AND MONITORING ALL ELECTRICAL AND ENVIRONMENTAL PARAMETERS OF THE WRAs.

THE RTBS IS SUPPLIED WITH HOLDING FIXTURES FOR THE RADAR WRAs UNDER TEST WITH PROVISIONS FOR EACH REMOVAL AND INSTALLATION OF THE WRA, AND READY ACCESS AND EXTENSION AND/OR REMOVAL OF SRAs.

THE RTBS PROVIDES OVERLOAD PROTECTIVE CIRCUITRY FOR THE PROTECTION OF THE WRAs AND TEST EQUIPMENT.

THE RTBS PROVIDES SWITCHING AND LOGIC CIRCUITRY TO ACTIVATE ONLY THOSE WRAs NECESSARY FOR THE OPERATION OF THE WRA UNDER TEST.

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

SUPPORT EQUIPMENT
RECOMMENDATION DATA

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512

CONTRACT NO. N00019-87-C-001

END ARTICLE IDENT. 5 AIRCRAFT
E2

SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2

FIG. 1a PAGE NO.

REVISION NO. E360

DATE 3/26/88 ORIGINAL

ASSOCIATED TEST EQUIPMENT (OR EQUIVALENT), ADAPTER

PART II RECOMMENDED SOLUTION (CONT'D)

THE RTBS MUST BE USED IN CONJUNCTION WITH THE FOLLOWING ASSOCIATED TEST EQUIPMENT (OR EQUIVALENT), ADAPTER
SETS, TOOLS AND
POWER AMPLIFIER DOLLY (NOT SUPPLIED AS PART OF THIS SERD).

TEST EQUIPMENT

THE ASSOCIATED TEST EQUIPMENT REQUIRED INCLUDES, BUT IS NOT LIMITED TO THE TEST EQUIPMENT, OR EQUIVALENT
LISTED BELOW. THE
LIST IS INCLUDED IN THIS SERD FOR REFERENCE ONLY, AND WILL NOT BE UPDATED AS A RESULT OF FURTHER DEFINITION
RESULTING FROM
COMPATIBILITY TESTING.

QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	ALFORD	1026C-4	SLOTTED LINE
1	AMPHENOL	35725-91	91 Ohm TERMINATION
2	NARDA	370NF	50 Ohm TERMINATION
4	NARDA	370NM	50 Ohm TERMINATION
2	TEKTRONIX	011-0049-01	50 Ohm TERMINATION
4	TROMPETER	TPM-50	50 Ohm TERMINATION
4	ANZAC	H-9N	JUNCTION HYBRID, 50 Ohm
2	FLUKE	8800A/AA	DIGITAL VOLTMETER
1	BALLANTINE LAB	323-20-MOD40	TRUE RMS VOLTMETER

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

Fig 1A Cables

SUPPORT EQUIPMENT RECOMMENDATION DATA

PART II RECOMMENDED SOLUTION (CONT'D)

SYSTEM INTERCONNECTING CABLES:

THE CABLES PROVIDE FOR THE INTERCONNECTION BETWEEN THE RTBS AND THE RADAR WRA.

WRA INTERCONNECTING CABLES:

THE CABLES PROVIDE FOR THE INTERCONNECTION BETWEEN BENCH WRAs.

EQUIPMENT INTERCONNECTION CABLES:

THE CABLES PROVIDE FOR THE INTERCONNECTION BETWEEN ASSOCIATED TEST EQUIPMENT AND THE RADAR WRAs.

THE RTBS INCLUDES THE RADAR SET WRAs LISTED IN TABLE I:

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512
CONTRACT NO. _____ N00019-87-C-001

END ARTICLE IDENT. _____ 6 AIRCRAFT
E2 _____
SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2 _____
FIG. 1a PAGE NO. _____
REVISION NO. _____ E360 _____
DATE _____ ORIGINAL
3/26/88 _____

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

SUPPORT EQUIPMENT
RECOMMENDATION DATA

PART II RECOMMENDED SOLUTION (CONT'D)

- TABLE I
AN/APS-145 RADAR SET WRAs SUPPLIED WITH RTBS
DISTRIBUTION BOX J-3010/APS-120 (A43)
METER, RADIO FREQUENCY POWER ME-413/APS-120 (A17)
COUPLER, DIRECTIONAL CU-1999/APS-120 (A20)
PUMP, ROTARY POWER DRIVE HD-902A/APS-120 (A25)
PRESSURIZER, ELECTRONIC EQUIP HD-901/APS-120 (A33)
MODULATOR, RADAR MD-1169/APS-139 (A30)
POWER SUPPLY PP-6618A/APS-120 (A37)
POWER SUPPLY PP-6616/APS-120 (A24)
TRANSFORMER ASSEMBLY TF-555/APS-120 (A22)
POWER SUPPLY PP-6619/APS-120 (A42)
NETWORK, PULSE FORMING MX-8945/APS-120 (A23)
REACTOR MX-8946/APS-120 (A34)
POWER SUPPLY PP-6617/APS-120 (A35)
AMPLIFIER, TRIGGER PULSE AM-6513/APS-120 (A31)
FILTER, DIRECT CURRENT POWER F-1308/APS-120 (A41)
TRANSFORMER ASSEMBLY TF-556/APS-120 (A36)
MODULATOR, RADAR MD-1170/APS-139 (A32)
DUMMY LOAD, ELECTRICAL DA-606/APS-120 (A26)
PULSE GENERATOR 0-1835/APS-145 (A0)
RADAR SET CONTROL C-11621/APS-145 (A11)
PERFORMANCE INDICATOR ID-2383/APS-145 (A12)
FERRITE ISOLATOR 2J-9436/APS-139 (AT1)

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512
CONTRACT NO. N00019-87-C-001
END ARTICLE IDENT. 7 AIRCRAFT
E2
SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2
FIG. 1a PAGE NO.
REVISION NO. E360
DATE ORIGINAL
3/26/88

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

SUPPORT EQUIPMENT
RECOMMENDATION DATA

Notes

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP /
26512

CONTRACT NO. N00019-87-C-001

END ARTICLE IDENT. 8 AIRCRAFT
E2

SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-
2

FIG. 1a PAGE NO.

REVISION NO. E360

DATE ORIGINAL
3/26/88

PART II RECOMMENDED SOLUTION (CONT'D)

NOTES:

- (1) AMPLIFIER, RADIO FREQUENCY AM-6412/APS-120 WILL BE OBTAINED FROM ON-SITE QUANTITIES TO PERFORM HIGH POWER TESTING AND
FAULT ISOLATION OF THE DUPLEXER CU-1998/APS-120; DUMMY LOAD, ELECTRICAL DA-606/APS-120 WRAs.
- (2) THE SIMULATOR, CONTROL VOLTAGE SM-726/APS-125 AND SM-842/APS-145 WRAs WILL BE OBTAINED FROM ON-SITE QUANTITIES TO BE USED
AS TEST FIXTURES FOR TESTING AND FAULT ISOLATION OF THEIR ASSOCIATED SRAs TO THE COMPONENT LEVEL.

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

Grumman Aerospace Corporation

Fig 1A Related

SUPPORT EQUIPMENT
RECOMMENDATION DATA

SE

CONTRACTOR / FSCM GRUMMAN AEROSPACE CORP / 26512

CONTRACT NO. N00019-87-C-001

END ARTICLE IDENT. 9 AIRCRAFT E2

SE PART / MODEL NO. / TYPE DESIG. 123SAV50000-E360-2

FIG. 1a PAGE NO.

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DATE ORIGINAL 3/26/88

PART II

RECOMMENDED SOLUTION (CONT'D)

ADAPTER SET(S)

TRANSITIONS.

CONSISTING OF SMALL ITEMS SUCH AS, TEE CONNECTORS, CONNECTOR-TO-CONNECTOR TYPE ADAPTERS AND RF
CONTAINED IN THE RADAR ADAPTER ACCESSORY SET, PN 123SAV52060-E329 (SERD 4810).

TOOLS

ASSEMBLY.

SPECIAL HOLDING FIXTURES AS IDENTIFIED DURING CERTAIN WRA TEST PROCEDURES ARE PROVIDED AS PART OF THE RTBS

POWER AMPLIFIER DOLLY

HARDWARE)

FREQUENCY

THE DOLLY (NOT SUPPLIED WITH THE RTBS) PROVIDES THE MOUNTING STRUCTURE FOR SECURING (WITH QUICK RELEASE
RADIO FREQUENCY AMPLIFIER AM-6412/APS-120 TO THE RTBS DURING MAINTENANCE AND STORAGE OF THE ON-SITE RADIO
AMPLIFIER.

ITEM NO.	ITEM NAME
5186	RADAR TEST BENCH SET

FIGURE 1a

THE SERD IS:

Continuously Evolving

Describes and Quantifies SE Data Requirements

Primary Record / Standardized

Is Key to SE Standardization and Non-Proliferation

Defines SE Acquisition and Logistic Support Data

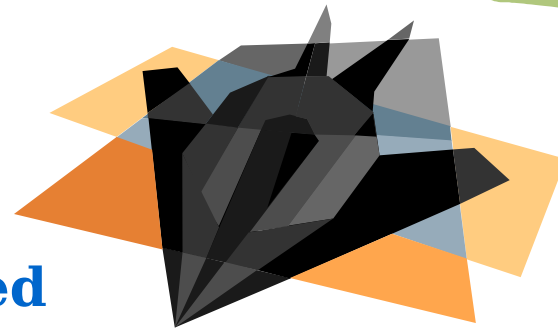
Is Required for Procurement of SE

Controls Data / Provides Cost

Facilitates Technical Review

Allows for the IMRL

Active Until End Article Scrapped



Accessing SEMS via the Web

Web-Based Environment:

<https://semsweb.serm.nola.navy.mil>

All SEMS applications run through this website in the form of a java applet.

Browser Requirements:

Internet Explorer Version 5.5, 128-bit encryption, latest edition of Microsoft Virtual Machine (this is standard on all NMCI machines)

Note: Windows XP does NOT come with Virtual Machine Standard. All XP machines will need to go to the Microsoft Download page and get the

Accessing SEMS on NMCI Computers

To ALL SERMIS users,

If you are experiencing performance problems when using SEMS on an NMCI machine, please use these URLs instead of the normal URLs:

For the SEMS application, use <https://semsweb.nadsuswe.nads.navy.mil> instead of <https://semsweb.nola.navy.mil>

For the reports server, use <https://semss.nadsuswe.nads.navy.mil> instead of <https://semss.nola.navy.mil>

SFTP (Secure File Transfer Protocol) to Sermdmzs:
sermdmzs.nadsuswe.nads.navy.mil

Use of these new URLs may improve performance. These new URLs will only work for NMCI machines.

Please direct all questions to the Customer Support Desk at DSN 647-6858 or Comm. (504)697-6858 or via email at sermis@sermnt.serm.nola.navy.mil.

Getting a SEMS ID created

From the SEMS ISSO, Lynn Huett:

Please send all SEMS Access Request forms for new users to your organization's appointed SEMS POC. The SEMS POC will then forward the Access form to Lynn Huett for processing. Once the user is given a user id and password, the information will be sent to your SEMS POC. The following is a list of the SEMS POCs.

They may also be found on the SEMS web site at <https://semss.nola.navy.mil> under

SERMIS Reports Directory/Misc Files/SEMS POCs.Doc

SEMS ID Points Of Contact by Command

AIRLANT

-- POC Mr. John Maute, Dsn 565-9184, Com (757) 445-9184,
mautejc@cna1.navy.mil

AIRPAC

-- POC Mr. Bob Linsteadt, Dsn 735-1436, Com (619) 545-1436,
robert.linsteadt@navy.mil

NAVICP Philadelphia

-- POC Mr. Bill McGann, Dsn 442-3644, Com (215) 697-3644,
william_r_mcgann@icpphil.navy.mil

CNARF

-- POC Mr. Dave Arceneaux, Dsn 678-6557, Com (504) 678-6557,
david.arceneaux@navy.mil

CNATRA

-- POC Mr. Herman Fruge, Dsn 861-3376, Com (361) 961-3376,
Fruge.h.j@nrst.navy.mil

NSWC CRANE

-- POC Mrs. Cindy Starr, Dsn 482-3894, Com (812) 854-3894,
starr_c@crane.navy.mil

COMMERCIAL DEPOTS, NADEP SOLOMONS

-- POC Mr. David Semat, Com (410) 326-2000 or (800) 882-5396,
sematdl@navair.navy.mil

NSWC CORONA

-- POC Mr. Dave Stance, Dsn 933-5704, Com (909) 273-5704,
david.stance@navy.mil

NADEP CHERRY POINT

SEMS ID Points Of Contact by Command (cont.)

NAVAIR LOGISTICS

-- POC Mrs. Lynn Huett, Dsn 757-8844, Com (301) 757-8844,
debra.huett@navy.mil

NAMTRA

-- POC Mrs. Jackie Booth, Dsn 922-9790 x157, Com (850) 452-9790 x157,
Jackie.L.Booth@cnet.navy.mil

NATEC

-- POC Mr. Warren Yoder, Dsn 735-3198, Com (619) 545-3198,
Yoderwh@navair.navy.mil

NAVAIR ACC 5.0D4

-- POC Mr. Carl Neeley, Dsn 757-8617, Com (301) 757-8617,
carl.neeley@navy.mil

RAYTHEON (Previously NAWCAD Indy)

-- POC Mr. Scott Kinslow, Dsn 369-4916, Com (317) 306-4916,
kinslows@indy.raytheon.com

NAWCADLKE Users with SERMIS Access

-- POC Mrs. Joann Wright, Dsn 624-4102, Com (732) 323-4102,
joann.wright@navy.mil

SPAWARINFOTECHCEN

-- POC Mrs. Joan Sharp, Dsn 647-2358, Com (504) 679-2358,
sharpj@sermnt.serm.nola.navy.mil

SYSCOM PMA260

-- POC Mr. Shawn Durand, Dsn 757-6851, Com (301) 757-6851,
shawn.durand@navy.mil

~~AUTOSERD Users at Lakehurst & Activities without~~
a POC

JOINT SERVICES SERD

HANDBOOK

(NAWCADLKE-MISC-362300-0001)

CONTENTS



- **SERD Overview with History & DID / MIS Relationships**
- **SERD Process Explanation Including Technical / Logistic Functionality**
- **Detailed Block-by-Block SERD Data Element Discussions Incorporating SERD Training Course Information and AUTOSERD Bulletins**
- **AUTOSERD Approval Process, Sample Screens, & Data Requirements**
- **SERMIS Notes: Identifies Data Elements Passed to SERMIS**
- **Appendices to Assist Reader:**
 - **AR21/ LSA070-2A / LSA070-2B Cross-Reference Table**
 - **Sample Completed SERDs and Blank Forms**
 - **AUTOSERD / LSA070-2B Data Input Conversion (incl. LSA070-2B Data Input Conversion)**

2004 Web Enabled SERD Handbook

Address https://webserd.lakehurst.navy.mil/acq/SerdHWebHelp/SERD_HANDBOOK.htm#A_Welcome_Page/HDBKHOME.html

Links [EDS-NMCI](#) [Homeport](#) [Customize Links](#) [Free Hotmail](#) [Windows Media](#) [Windows](#)

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- Part_III_SEMS_Screens
- Part_IV_AR21_Format_S
- Part_V_LSA070_1388-2
- Part_VI_LSA070_1388-2
- Part_VIII_Comments
- Part_VIII_Quick_Referer
- The_Acronyms
- The_Appendix
- The_Enclosures
- What's New



Welcome to the Joint Services SERD Handbook on the Web

NAWCADLKE -

MISC-324800-0001

This document was created to provide greater visibility to all SERD/ AUTOSERD user's, eliminate reproduction and distribution costs, and to incorporate revisions in a more timely matter.

Navigation Links - [Section 3](#) discusses the Production AUTOSERD System in full, including an overview of all screens, reports and processes which make up both the AUTOSERD and SLM sub-systems. In section 4 at the bottom of each page there are navigation links to take you to the next page, or the previous page within the document. In sections 4, 5, and 6 there are navigation links to the three Matrixes ([AR21 matrix](#), [LSA070-2A matrix](#), [LSA070-2B matrix](#), [SEMS Screens field to tab matrix](#) and the [SEMS Screens tab to field matrix](#)) these matrixes have links to the pages that correspond to the blocks contained within these SERD formats. These matrices provide the best way to navigate within the document as you can click on the block of the SERD that you have a question on, get the information that you need, and then return to the matrices.

Section 10 and Appendices A,B,C, are samples of completed and blank SERD's in all formats and are available for viewing the pdf files.

SERD HANDBOOK EVOLUTION

DATE

NAEC-MISC-92-0453

June 1980 (Rev. Feb. 1981)

*NAEC-MISC-92-0815

31 Oct 1984

U.S. NAVY AND MARINE CORPS TRI-SERVICE (MIL-STD-2097)

*NAEC-MISC-52-0895
MIL-STD-1388-2A;

06 Oct 1987

U.S. NAVY AND MARINE CORPS HANDBOOK FOR ENHANCED SERD

*NAEC-MISC-52-0933
Enhanced SERD;

July 1988

U.S. NAVY AND MARINE CORPS LSA-070 (MIL-STD-2097A)

*NAEC-MISC-52-1034
STD-1388-2A;

25 July 1990

JOINT SERVICES SERD HANDBOOK

NAWCADLKE-MISC-362300-0001
SERMIS; LSAR;

31 March 1997

DI-ILSS-80118B;

CONTENTS/SOURCE

AR21C; SERD DID, UDI-E-2100E

AR21C; UDI-E-21001E

Changes in SE Acquisition Procedures, NAVAIR
Field Activity Responsibilities, AUTOSERD

LSA-070 SERD; MIL-STD-2097(AS);

SERD DID DI-ILSS-80118A; AUTOSERD;
AMMRL/SERMIS

AR21C; UDI-E-2100E; AUTOSERD

SERMIS

- CHG 89-1

- CHG 90-1

LSA-070 SERD; MIL-STD-2097A; MIL-

DI-ILSS-80118B; AUTOSERD; SERMIS

Enhanced SERD; AUTOSERD;

MIL-STD-2097A; MIL-STD-1388-2A;

MIL-STD-1388-2B; DI-ILSS-80118C

NAWCADLKE Points Of Contact

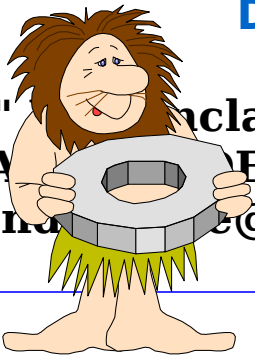
- . **Customer Service Help Desk**
 - NAWC, CODE 3.6.3.1, Ms. Jeannette Fusco, Dsn 624-1478, jeannette.fusco@navy.mil &
Mr. Jim Gorman, Dsn 624-4115, james.gorman@navy.mil
- . **AUTOSERD**
 - **Programming**
 - NAWC, CODE 3.6.2.2, Ms. Heidi Klein , Dsn 624-7952, heidi.klein@navy.mil
 - **USER Ids/Passwords**
 - NAWC, CODE 3.6.3.1, Jeannette Fusco, Dsn 624-1478, jeannette.fusco@navy.mil
 - **Training**
 - NAWC CODE 3.6.4.1 Mr. Phil Sevasta, Dsn 624-2868, phillip.sevasta@navy.mil
 - **SLM/List Code Inquiries**
 - NAWC, CODE 3.6.4.1, Mr. Phil Sevasta, Dsn 624-2868, phillip.sevasta@navy.mil
- . **SERMIS User Inquiries**
 - NAWC, CODE 3.6.4.1, Ms. Joann Wright, Dsn 624-4102, joann.wright@navy.mil

- . **SODARR Process/Inquiries**

NAWCADLKE Points of Contact (Continued)

- **Work Unit Codes**
 - NATEC San Diego, CA (ASSIGNMENTS)
 - NATEC AIR 3.2.D, Mr. Henry (Hank) Deskiewicz, Comm (619) 545-2502,

wucms@navair.navy.mil
- **MIL-HDBK-300/DLSC/SERD HANDBOOK**
 - NAWC, Code 3.6.2.3, Mr. Phil Sevasta, Dsn 624-2868,
phillip.sevasta@navy.mil
- **Installation Significant**
 - NAWC, CODE 4.8.5.1.B, Mr. Joe Servallo, Dsn 624-1614 ,
joseph.servello@navy.mil
- **Type Equipment Code**
 - SPAWARSYS-VA, CODE 222, Mr. David Berquist , Dsn 646-0227, Comm
(757) 443-0227,
Dberquis@scn.spawar.navy.mil
- **"AN" Enclature Assignment**
 - NAWC, CODE 4.1.4.1, Mr. Ray Santee, Dsn 624-2566,
raymond.santee@navy.mil



Off-station Points Of Contact

- . **LAMS Training**
 - NAVAIR Code 364, Ms. Brenda Tomanack, Dsn 757-6853, comm 301-757-6853,
brenda.tominack@navy.mil
- . **Calibration Code/requirements**
 - NWAC Code MS54s, Mr. Dave Stance Dsn 933-5704
- . **Serd Processing Unit**
 - NAVICP Phil, Code 03324.41, Mr. Bill McGann, Dsn 442-3644,
William_R_McGann@icpphil.Navy.Mil
 - NAVICP Phil,code 03324.42, Mr. John Egan, Dsn 442-2869,
John_A_Egan@icpphil.Navy.Mil
 - NAVICP Mech, Code 059331, Mr. Thomas Feltenberger, Dsn 430-2253
Comm.
(717) 605-2253, Tommy.feltenberger@Navy.Mil
- . **SERMIS Userids, Navair Security**
 - NAVAIR Code 364, Ms. Lynn Huett Dsn 757-6849, 301-757-6849,
Debra.Huett@Navy.Mil
- . **SERMIS Customer Support Desk**
 - SPAWAR ITC New Orleans, Mr Lee Grigsby and Mr Marc Quarles, Dsn 87
647-6858 Comm.

SERD Helpful Website URL's

**ACQ MS ACCESS HAS BEEN UPDATED AT THE FOLLOWING
WEBSITE**

<https://webserd.lakehurst.navy.mil/acq/>

CLICK ON SEMS DATA REPOSITORY BUTTON

CLICK ON AUTOSERD MS ACCESS BUTTON

**Follow instructions for update users...(Just download
acq_files.zip....unzip....run macro)**

SERD Training Course Material

To access go to <https://138.60.67.250/acq/>

SERMALL - same as site as ACQ MS Access

SERD Handbook on the web:

https://webserd.lakehurst.navy.mil/acq/SerdHWebHelp/SERD_HANDBOOK.htm#A_Welcome_Page/HDBKHOME.html

Helpful Website URL's

NAVAIR Instruction Main Page

<http://www.nalda.navy.mil/instructions/>

OPNAVINST 4790.2H Web Site

<https://www.nalda.navy.mil/4790/default.html>

DOD Home Page

<http://www.defenselink.mil/>

Wingspan Home Page

<https://wingspan.navair.navy.mil/>

NAVAIR Main Page

<http://www.navair.navy.mil/>

PMA 260 on the Web

<http://140.229.102.109/map.htm>

WINGSPAN Corporate Applications Download Page:

<https://wingspan.navair.navy.mil/corpapps/index.cfm>

NAVAIR Acquisition and Logistics Reform Main Page:

<http://www.nalda.navy.mil/acquisition/>

Search All available CAGEs

<http://www.dlis.dla.mil/cagesearch/>

Web SEMS URL:

<https://semsweb.serm.nola.navy.mil>

Military Acronyms, Initialisms and Abbreviations & Military Terminology

<http://www.fas.org/news/reference/lexicon/index.html>